From: Byers, Harris <Harris.Byers@stantec.com>
Sent: Monday, August 23, 2021 3:00 PM
To: Beggs, Tauren R - DNR
Cc: kmcdaniel@manitowoc.org; nwitte@gklaw.com; ategen@manitowoc.org; 'Van Der Kloot, James'
Subject: RE: Supplemental Phase II ESA - Underground Storage Tank Removal and Soil Sampling

Thanks for the clarification. Will get this taken care of.

Harris Byers, Ph.D.
Sr. Brownfields Project Manager
Contaminant Hydrogeologist / Urban Geochemist

Direct: 414 581-6476
Harris.Byers@stantec.com

Stantec
12075 Corporate Parkway Suite 200
Mequon WI 53092-2649

From: Beggs, Tauren R - DNR <Tauren.Beggs@wisconsin.gov>
Sent: Monday, August 23, 2021 2:59 PM
To: Byers, Harris <Harris.Byers@stantec.com>
Cc: kmcdaniel@manitowoc.org; nwitte@gklaw.com; ategen@manitowoc.org; 'Van Der Kloot, James' <vanderkloot.james@epa.gov>
Subject: RE: Supplemental Phase II ESA - Underground Storage Tank Removal and Soil Sampling

Hi Harris,

There will need to be follow up with DATCP to get the storage tank database updated. Looks like UST 1 (Tank ID: 414569) appears to be correct that it was closed/removed since it was previously removed. The other three USTs indicate they were Closed/Removed as of 6/18/2001, which appears to need to be updated:

- UST 2 (Tank ID: 414570) still remains as closed in place
- UST 3 (Tank ID: 414571) is now removed
- UST 4 (Tank ID: 414688) is now removed

The DATCP Facility ID for the site is 112099. The status change can be recorded to DATCP by filling out and submitting the DATCP Tank Registration form (TR-WM-137) for each tank, which can be found on DATCP's website at the following link: https://datcp.wi.gov/Pages/Programs_Services/PetroleumHazStorageTanksForms.aspx.

Sorry this took a little bit to get back to you on this.

If you have any questions, please let me know.

Regards,

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Tauren R. Beggs
Phone: (920) 510-3472
Tauren.Beggs@wisconsin.gov (preferred contact method during work at home)

From: Byers, Harris <Harris.Byers@stantec.com>
Sent: Monday, August 9, 2021 4:46 PM
To: ategen@manitowoc.org; 'Van Der Kloot, James' <vanderkloot.james@epa.gov>; Beggs, Tauren R - DNR <Tauren.Beggs@wisconsin.gov>
Cc: kmcdaniel@manitowoc.org; nwitte@gklaw.com
Subject: Supplemental Phase II ESA - Underground Storage Tank Removal and Soil Sampling

Team:

Attached is a supplemental Phase II ESA summarizing soil quality following removal of two intact former fuel oil underground storage tanks (UST) at the former Mirro facility located at 1512 Washington Street in Manitowoc.

In summary, residual subsurface petroleum impacts were previously investigated under the Closed BRRTS Case No. 03-36-274209; however, the USTs could not be removed at the time of tank closure due to building structural limitations. Building demolition completed by the City allowed the intact tanks to be removed, as described herein.

Jim – this represents the final piece of work to be completed under the CDA's USEPA Brownfield Site-Specific Assessment Grant (Cooperative Agreement number BF-00E02380).

Tauren – please let me know if you want the tank removal company to file paperwork with DATCP, or if the attached will suffice for administrative purposes as we have done previously.

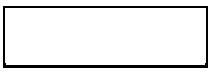
Ned/Kathleen – please forward as appropriately to others involved in the project.

Sincerely,

Harris Byers, Ph.D.
Sr. Brownfields Project Manager
Contaminant Hydrogeologist / Urban Geochemist

Direct: 414 581-6476
Harris.Byers@stantec.com

Stantec
12075 Corporate Parkway Suite 200
Mequon WI 53092-2649



Stantec Consulting Services Inc.
12075 Corporate Parkway, Suite 200 Mequon WI 53092

August 1, 2021
File: 193706270

Attention: Mr. Adam Tegen
Community Development Director
City of Manitowoc
900 Quay Street
Manitowoc, WI 54220

Dear Mr. Tegen,

Reference: Supplemental Phase II ESA - Underground Storage Tank Removal and Soil Sampling
Former Mirro Facility
1512 Washington Street
Manitowoc, Wisconsin
OPEN BRRTS ID: 02-36-545108
CLOSED BRRTS ID: 03-36-274209 (Closed LUST)
USEPA ACRES ID: 169132

As a continuance of the Stantec (2020a) *Phase II Environmental Site Assessment* (ESA) and as recommended in the Stantec (2020b) *Supplemental Underground Storage Tank Assessment*, Stantec has completed a supplemental Phase II ESA to characterize soil beneath two former fuel oil underground storage tanks (USTs) following tank removal at the Brownfield property located at 1512 Washington Street in Manitowoc, Wisconsin (herein referred to as the "Property"). The location of the Property is illustrated on **Figure 1**. This work was completed using funds provided through a site-specific Brownfield assessment grant awarded to the Community Development Authority of the City of Manitowoc (CDA) by the United States Environmental Protection Agency (USEPA) in 2018 under cooperative agreement number BF-00E02380. The USEPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) ID for the Property is 169132. The Wisconsin Department of Natural Resources (WDNR) Bureau for Remediation and Redevelopment Tracking System (BRRTS) closed case number associated with the USTs is 03-36-274209. The open BRRTS case number associated with sitewide impacts from a variety of petroleum and hazardous substances is 02-36-545108.

BACKGROUND

As described in the Stantec (2016) Phase I ESA, closure documentation associated with BRRTS Case No. 03-36-274209 suggested four former fuel oil underground storage tanks (USTs; estimated 4,400 gallons each) were abandoned in place by the previous owner in 2001 by filling each tank with a cementitious slurry as the former industrial buildings prevented complete UST removal at the time of tank closure. However, as subsequently noted by Stantec (2020b) and illustrated on Figure 2, UST 1 no longer remained onsite, and UST 2 was previously cut open and appeared to be backfilled with general site fill (brick, debris) and trace amounts of imported gravel. UST 3 and UST 4 remained onsite as described in Stantec (2016) and each tank was approximately five feet in diameter and 30 feet long. Removal of UST 3 and UST 4 was warranted to facilitate soil sampling beneath the tanks.

Reference: Supplemental Phase II ESA - Underground Storage Tank Removal and Soil Sampling
Former Mirro Facility; 1512 Washington Street; Manitowoc, Wisconsin

UST REMOVAL

Field activities were completed using methods described in the Stantec (2019) *Site Specific Sampling and Analysis Plan* (SSSAP). Diggers Hotline was contacted to locate and mark the locations of registered utilities in the project area. This investigation was completed using Standard Operating Procedures (SOPs) presented in the Stantec (2015) *Quality Assurance Project Plan* (QAPP) and associated addenda, as summarized below. Photographic documentation of field activities is provided in **Attachment A**.

On June 8, 2021, UST 3 and UST 4 were removed from the Property from a common excavation by Horizon Construction and Exploration, LLC (Horizon). The top of each UST was cut off and the inert cementitious materials used to initially abandon the tanks in place were removed and transported offsite to the Badgerland Aggregates, LLC Q-Pit (Badgerland Aggregates) in Two Rivers, Wisconsin. Disposal records are provided in **Attachment B**. The empty steel tanks were removed and transported offsite for recycling at Sadoff Iron & Metal of Manitowoc, Wisconsin. Scrap metal disposal documentation is included as **Attachment C**. The excavation was backfilled with clean, imported granular fill sourced from Badgerland Aggregates, and the excavation rough-graded to meet Occupational Safety and Health Administration (OSHA) slope requirements. Imported fill documentation is included as **Attachment B**.

Please note that the remnants of UST 2 were not removed as part of this investigation.

WELL ABANDONMENT

As noted in Stantec (2020a), monitoring well MW-25 was installed approximately one-foot east of the western end of UST 3 in March 2019. MW-25 was abandoned pursuant to NR 141 Wisconsin Administrative Code (WAC) on June 8, 2021 in conjunction with UST removal activities. The well abandonment form for MW-25 is included as **Attachment D**.

SOIL SAMPLING

As illustrated on **Figure 2**, six samples of underlying soil were taken directly from the sidewalls and base of the excavation. No odors or visual staining indicative of petroleum or hazardous substance impacts were noted in these soil samples.

Soil samples were collected and preserved in accordance with SOP No. 02 and Table 3 of the QAPP and associated addenda (Stantec, 2015). Samples were placed in laboratory-supplied containers per SOP No. 02, preserved as appropriate, stored on ice, and submitted under chain-of-custody procedures to Eurofins TestAmerica (Eurofins; Chicago, Illinois), a State of Wisconsin-certified laboratory for analysis. Soil sample analyses included volatile organic compounds (VOCs; SW846 Method 8260B) and polycyclic aromatic hydrocarbons (PAHs; SW846 Method 8270D). Detected constituents are compared to Chapter NR 720 Wisconsin Administrative Code (WAC) residual contaminant levels (RCLs) published by WDNR in December 2018 on **Table 1**. The laboratory report is provided in **Attachment E**.

RESULTS

As summarized on Table 1, no petroleum constituents were detected in soil at concentrations greater than applicable industrial direct contact RCLs. Select PAH compounds were detected at concentrations exceeding applicable non-industrial direct contact RCLs and/or soil to groundwater RCLs in the soil samples taken from

beneath UST 3 and UST 4 ("South Tank Base" and "North Tank Base", respectively) and in the soil sample collected from the east sidewall ("East Wall"). Four VOC constituents were also detected in the east sidewall soil sample; however, detected VOCs were less than Chapter NR 720 WAC RCLs.

Detected constituents at concentrations greater than the laboratory detection limit, but less than the laboratory reporting limit are qualified with a "J" flag in the laboratory report (Attachment E) and Table 1. In addition, internal laboratory quality assurance/quality control thresholds were met. VOCs were not detected in the trip blank. Although absence of a field duplicate sample represents a small data gap, the quality objectives stipulated in the Stantec (2015) QAPP are generally met, and the data are suitable for use in this Phase II ESA.

CONCLUSIONS

This Phase II ESA identified residual petroleum impacts to soil similar to those identified previously during tank closure. Stantec recommends that a copy of this letter report be submitted to the WDNR for review and determination if supplemental sampling is warranted under the open BRRTS Case No. 02-36-545108 to further define the extents and magnitude of residual petroleum impacts associated with UST 3 and UST 4.

As additional funds are secured, Stantec recommends removing the remnants of UST 2 and sampling beneath the former tank to determine if residual impacts remain.

Regards,

STANTEC CONSULTING SERVICES INC.

Whitney M. Cull, EIT
Assistant Brownfields Project Manager
Tel: 262 – 219 – 4740
Email: Whitney.Cull@Stantec.com

STANTEC CONSULTING SERVICES INC.

Harris L. Byers, Ph.D.
Sr. Brownfields Project Manager
Tel: 414 – 581 – 6476
Email: Harris.Byers@Stantec.com

STANTEC CONSULTING SERVICES INC.

Richard J. Binder, P.G., CPG
QA/QC Manager
Rick.Binder@stantec.com

ENCLOSURES

Figures
Tables
Attachments
Attachment A – Photographic Documentation
Attachment B – Badgerland Aggregates Disposal and Imported Fill Tickets
Attachment C – Sadoff Iron & Metal Disposal Documentation
Attachment D – MW-25 Well Abandonment Form
Attachment E – Laboratory Report

Reference: Supplemental Phase II ESA - Underground Storage Tank Removal and Soil Sampling
Former Mirro Facility; 1512 Washington Street; Manitowoc, Wisconsin

REFERENCES

Stantec, 2016, Phase I ESA for 1512 Washington Street, Manitowoc, Wisconsin, June 28, 2016.

Stantec, 2019. Site-Specific Sampling and Analysis Plan for a Chapter NR 716 WAC Site Investigation, 1512 Washington Street, Manitowoc, Wisconsin, January 9, 2019.

Stantec, 2015. Quality Assurance Project Plan, Implementation of U.S. EPA Assessment Grants for Petroleum and Hazardous Substance Brownfields, City of Manitowoc, Wisconsin, U.S. EPA Cooperative Agreement No. BF-00E01529-0, August 19, 2015. **Note: Applicable to U.S. EPA Cooperative Agreement No. BF-00E02380 per the January 7, 2019 and subsequent updates*.

Stantec, 2020. Phase II ESA, 1512 Washington Street, Manitowoc, Wisconsin, March 19, 2020.

Stantec, 2020. Supplemental Underground Storage Tank Assessment, Former Mirro Facility, 1512 Washington Street, Manitowoc, Wisconsin, May 18, 2020.

LIMITATIONS

This Underground Storage Tank Removal and Confirmation Sampling investigation was performed in in accordance with generally accepted practices of the profession for performing similar studies at the same time and in the same geographical area. Stantec observed that degree of care and skill generally exercised by the profession under similar circumstances and conditions. No other warranty is expressed or implied.

Stantec observations, findings, and opinions must not be considered as scientific certainties, but only an opinion based on our professional judgment concerning the significance of the data gathered during the course of the investigation. Specifically, Stantec does not and cannot represent that the Site contains no hazardous or toxic materials or other latent condition beyond that observed by Stantec.

This document was prepared by Stantec for the CDA. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibilities of such third parties. Stantec accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

FIGURES

Figure No.
1

Title
Site Location and Local Topography

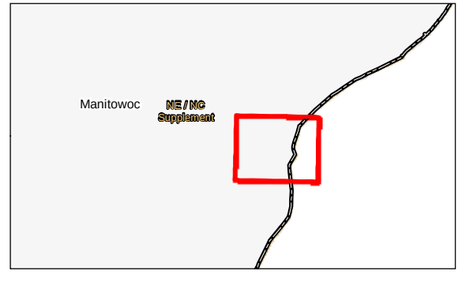
Client/Project
City of Manitowoc
USEPA Brownfield Assessment Grant
Hazardous Substances

0 1,050 2,100 Feet

193703931
Prepared by HLB on 5-24-16

N

Legend
Target Site



Notes
1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet
2. Data Sources Include:
Topo Map: USGS/National Geographic Society

Stantec

Figure No.
2

Title
Removed Underground Storage Tanks and Soil Sampling Locations

Client/Project
City of Manitowoc
USEPA Brownfield Assessment Grant
Hazardous Substances

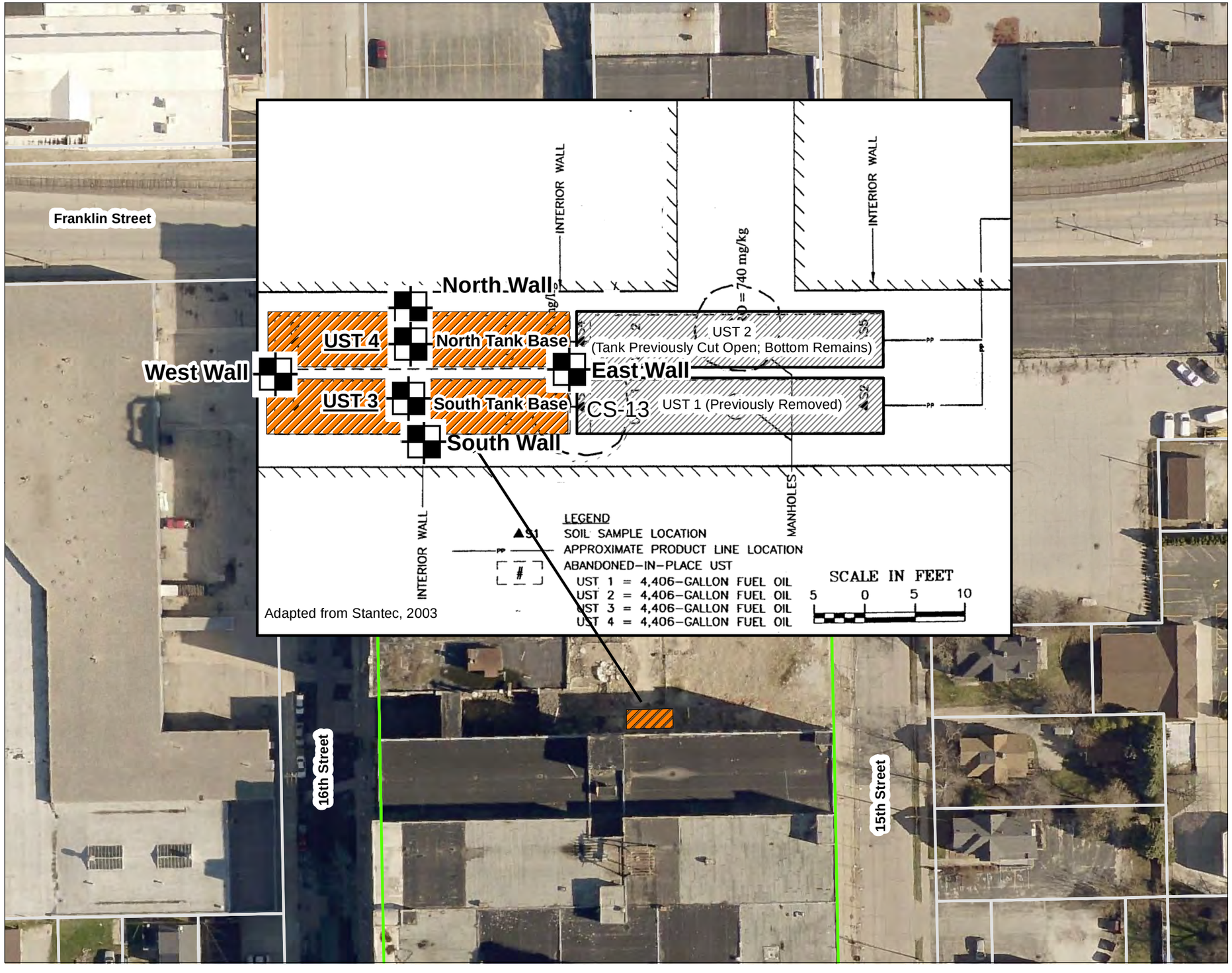
1937003931
Prepared by HLB on 5-18-2020

0 45 90 Feet

Legend

- Target Property
- Parcels
- Removed Underground Storage Tanks
- Soil Sample Location

N



Notes
1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803
2. Feet
3. Data Sources Include:
   Orthophotography: 2015 City of Mantiowoc

Stantec

TABLE

Table 1
Detected Constituents in Soil
1512 Washington Street
Manitowoc, Wisconsin

Detected Constituents in Soil	Units	Non-Industrial Direct Contact RCL (A)	Industrial Direct Contact RCL (B)	Soil to Groundwater RCL (C)	Sample Location/ID, Sample Date, Laboratory ID, Associated Tank ID						
					South Wall 06/08/2021 500-200584-1 UST 3	South Tank Base 06/08/2021 500-200584-2 UST 3	West Wall 06/08/2021 500-200584-3 UST 3 & UST 4	East Wall 06/08/2021 500-200584-4 UST 3 & UST 4	North Tank Base 06/08/2021 500-200584-5 UST 4	North Wall 06/08/2021 500-200584-6 UST 4	Trip Blank (MeOH TB) 06/08/2021 500-200584-7
Polycyclic Aromatic Hydrocarbons											
Acenaphthene	µg/kg	3,590,000	45,200,000	n/v	< 6.2	6.6 J	< 6.2	74	69	12 J	--
Acenaphthylene	µg/kg	n/v	n/v	n/v	< 4.5	< 4.9	< 4.5	22 J	8.3 J	< 4.6	--
Anthracene	µg/kg	17,900,000	100,000,000	196,949	< 5.7	25 J	< 5.7	190	240	< 5.8	--
Benzo(a)anthracene	µg/kg	1,140	20,800	n/v	19 J	380	7.0 J	770	1,500[A]	56	--
Benzo(a)pyrene	µg/kg	115	2,110	470	15 J	170[A]	7.3 J	660[AC]	850[AC]	40	--
Benzo(b)fluoranthene	µg/kg	1,150	21,100	478	20 J	490[C]	< 7.4	1,100[C]	1,900[AC]	150	--
Benzo(g,h,i)perylene	µg/kg	n/v	n/v	n/v	< 11	150	< 11	190	350	55	--
Benzo(k)fluoranthene	µg/kg	11,500	211,000	n/v	< 10	200	< 10	440	790	48	--
Chrysene	µg/kg	115,000	2,110,000	144	20 J	560[C]	< 9.4	770[C]	1,600[C]	95	--
Dibenzo(a,h)anthracene	µg/kg	115	2,110	n/v	< 6.6	52	< 6.6	74	130[A]	17 J	--
Fluoranthene	µg/kg	2,390,000	30,100,000	88,878	19 J	660	8.0 J	1,400	2,300	96	--
Fluorene	µg/kg	2,390,000	30,100,000	14,830	< 4.8	< 5.2	< 4.8	75	79	11 J	--
Indeno(1,2,3-cd)pyrene	µg/kg	1,150	21,100	n/v	< 8.9	130	< 8.9	200	320	49	--
Methylnaphthalene, 1-	µg/kg	17,600	72,700	n/v	< 8.4	< 9.0	< 8.4	25 J	< 8.7	< 8.5	--
Methylnaphthalene, 2-	µg/kg	239,000	3,010,000	n/v	< 6.3	< 6.8	< 6.3	34 J	< 6.6	< 6.4	--
Naphthalene	µg/kg	5,520	24,100	658	< 5.3	< 5.7	< 5.3	120	7.4 J	< 5.4	--
Phenanthrene	µg/kg	n/v	n/v	n/v	< 4.8	310	< 4.8	1,000	1,800	40	--
Pyrene	µg/kg	1,790,000	22,600,000	54,546	20 J	580	8.4 J	1,200	2,200	66	--
Volatile Organic Compounds											
Naphthalene	µg/kg	5,520	24,100	658	< 17	< 16	< 17	87	< 17	< 17	< 17
Toluene	µg/kg	818,000	818,000	1,107	< 7.4	< 7.2	< 7.4	24	< 7.3	< 7.3	< 7.4
Trichlorobenzene, 1,2,3-	µg/kg	62,600	934,000	n/v	< 23	< 22	< 23	53	< 23	< 23	< 23
Trichlorobenzene, 1,2,4-	µg/kg	24,000	113,000	408	< 17	< 17	< 17	37 J	< 17	< 17	< 17

Notes:

RCL	Wisconsin Soil Residual Contaminant Levels (as of December 2018), available at https://dnr.wi.gov/topic/Brownfields/documents/tech/RCLs.xlsm.
A	Concentration exceeds Wisconsin Non-Industrial Direct Contact RCL
B	Concentration exceeds Wisconsin Industrial Direct Contact RCL
C	Concentration exceeds Wisconsin Soil to Groundwater RCL
AC	Concentration exceeds Wisconsin Non-Industrial Direct Contact RCL and the Soil to Groundwater RCL
15.2	Measured concentration did not exceed the indicated standard
<0.03	Analyte was not detected at a concentration greater than the laboratory reporting limit
n/v	No standard/guideline value
--	Parameter not analyzed
J	The reported result is an estimated value
µg/kg	Micrograms per kilogram

ATTACHMENTS

ATTACHMENT A
Photographic Documentation

Stantec

Photographic Log

Client:	**City of Manitowoc**	**Project:**	**193706270**
Site Name:	**Former Mirro Facility**	**Site Location:**	**1512 Washington Street, Manitowoc, WI**

Photograph ID: 1 **Photo Location:** Northeast corner of excavation **Direction:** Looking southwest **Survey Date:** 6/7/2021 **Comments:** Revealing the underground storage tanks (USTs).	
Photograph ID: 2 **Photo Location:** North of excavation **Direction:** Looking southwest **Survey Date:** 6/7/2021 **Comments:** Cutting the top of UST 4 to facilitate removal.	

Client:	**City of Manitowoc**	**Project:**	**193706270**
Site Name:	**Former Mirro Facility**	**Site Location:**	**1512 Washington Street, Manitowoc, WI**

Photograph ID: 3 **Photo Location:** East of excavation **Direction:** Looking west **Survey Date:** 6/7/2021 **Comments:** Removing the top of UST 4 to facilitate removal. UST 3 is also shown (left) with a monitoring well (MW-25) installed through its very west end; this well was abandoned as part of this June 2021 tank removal event.	
Photograph ID: 4 **Photo Location:** West of excavation **Direction:** Looking east **Survey Date:** 6/7/2021 **Comments:** Cutting the top of UST 4.	

Client:	**City of Manitowoc**	**Project:**	**193706270**
Site Name:	**Former Mirro Facility**	**Site Location:**	**1512 Washington Street, Manitowoc, WI**

Photograph ID: 5 **Photo Location:** West of excavation **Direction:** Looking west **Survey Date:** 6/8/2021 **Comments:** UST 3 and UST 4 were removed from the excavation once the inert, cementitious backfill was removed. The inert backfill was hauled offsite to Badgerland Aggregates, LLC and the metal scrap was hauled to Sadoff Iron & Metal.	
Photograph ID: 6 **Photo Location:** West of excavation **Direction:** Looking east **Survey Date:** 6/8/2021 **Comments:** Another view of removed tanks UST 3 and UST 4.	

Client:	**City of Manitowoc**	**Project:**	**193706270**
Site Name:	**Former Mirro Facility**	**Site Location:**	**1512 Washington Street, Manitowoc, WI**

Photograph ID: 7 **Photo Location:** Northwest corner of excavation **Direction:** Looking southeast **Survey Date:** 6/8/2021 **Comments:** Tank bed conditions following the removal of UST 3 and UST 4. Monitoring well MW-25 is visible in the southwest corner of the tank bed, and is removed prior to backfilling the tank bed.	
Photograph ID: 8 **Photo Location:** Southeast corner of excavation **Direction:** Looking northwest **Survey Date:** 6/8/2021 **Comments:** Another view of the tank bed conditions prior to backfilling.	

Client:	**City of Manitowoc**	**Project:**	**193706270**
Site Name:	**Former Mirro Facility**	**Site Location:**	**1512 Washington Street, Manitowoc, WI**

Photograph ID: 9 **Photo Location:** West end of excavation **Direction:** Looking north **Survey Date:** 6/8/2021 **Comments:** Confirmation sampling was performed from the tank bed floor and sidewalls (MW-25 now abandoned). No visual or olfactory indications of petroleum contamination were observed.	
Photograph ID: 10 **Photo Location:** Confirmation samples **Direction:** **Survey Date:** 6/8/2021 **Comments:** Confirmation sampling was performed from the tank bed floor and sidewalls. No visual or olfactory indications of petroleum contamination were observed.	

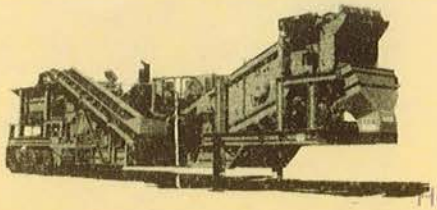
Client:	**City of Manitowoc**	**Project:**	**193706270**
Site Name:	**Former Mirro Facility**	**Site Location:**	**1512 Washington Street, Manitowoc, WI**

Photograph ID: 11 **Photo Location:** Southeast of excavation **Direction:** Looking northeast **Survey Date:** 6/8/2021 **Comments:** Clean, granular fill was imported from Badgerland Aggregates, LLC for backfilling the tank excavation.	
Photograph ID: 12 **Photo Location:** Southwest of excavation **Direction:** Looking northeast **Survey Date:** 6/8/2021 **Comments:** Final tank bed conditions following placement of the imported granular backfill.	

ATTACHMENT B

Badgerland Aggregates Disposal and Imported Fill Tickets

2



Badgerland Aggregates, LLC
Q - Pit
Pit Phone : 920-755-2131
Office Phone: 920-657-1586
HAVE A NICE DAY!

out

COMPANY CODE: 0000900
BILLING COMPANY: Cash Customer
ADDRESS:

TICKET #: 1124552
DATE: 6/8/2021
TIME: 09:45 AM

HAULER CODE #: 0009727
HAULER COMPANY: Lueder Trucking
JOB NAME:
JOB CODE #:
JOB LOADS: 0

ORDERED: 0
DELIVERED: 0
REMAINING: 0
TRUCK LOADS: 0
DELIVERED TODAY: 0

TRUCK: 115

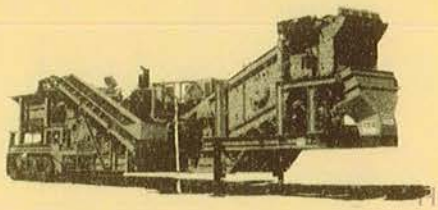
EMPTY WEIGHT: 65000
FULL WEIGHT: 29120 LOAD WEIGHT: 35880 TONS: 17.94

LOAD CODE: 91 TYPE OF LOAD: Concrete-Disposal

REC'D BY: Roger Hoffner MEMO:

Ticket EditedReprinted Ticket

2



~~Fill~~ out
con.

Badgerland Aggregates, LLC
Q - Pit
Pit Phone : 920-755-2131
Office Phone: 920-657-1586
HAVE A NICE DAY!

COMPANY CODE: 0000900
BILLING COMPANY: Cash Customer
ADDRESS:

TICKET #: 1124572
DATE: 6/8/2021
TIME: 11:06 AM

HAULER CODE #: 0009727
HAULER COMPANY: Lueder Trucking
JOB NAME:
JOB CODE #:
JOB LOADS: 0

ORDERED: 0
DELIVERED: 0
REMAINING: 0
TRUCK LOADS: 0
DELIVERED TODAY: 0

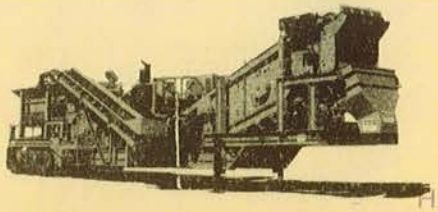
TRUCK: 115

EMPTY WEIGHT: 65000
FULL WEIGHT: 29120 LOAD WEIGHT: 35880 TONS: 17.94

LOAD CODE: 102 TYPE OF LOAD: Spoils

REC'D BY: Roger Hoffner MEMO:

2



Badgerland Aggregates, LLC
Q - Pit
Pit Phone : 920-755-2131
Office Phone: 920-657-1586
HAVE A NICE DAY!

COMPANY CODE: 0000900
BILLING COMPANY: Cash Customer
ADDRESS:

TICKET #: 1124586
DATE: 6/8/2021
TIME: 12:37 PM

HAULER CODE #: 0009727
HAULER COMPANY: Lueder Trucking
JOB NAME:
JOB CODE #:
JOB LOADS: 0

ORDERED: 0
DELIVERED: 0
REMAINING: 0

TRUCK: 115

TRUCK LOADS: 0
DELIVERED TODAY: 0

EMPTY WEIGHT: 65000
FULL WEIGHT: 29120 LOAD WEIGHT: 35880 TONS: 17.94

LOAD CODE: 91 TYPE OF LOAD: Concrete-Disposal

REC'D BY: Roger Hoffman MEMO:

2

Badgerland Aggregates, LLC
Q - Pit
Pit Phone : 920-755-2131
Office Phone: 920-657-1586
HAVE A NICE DAY!

COMPANY CODE: 0000900
BILLING COMPANY: Cash Customer
ADDRESS:

TICKET #: 1124600
DATE: 6/8/2021
TIME: 01:58 PM

HAULER CODE #: 0009727
HAULER COMPANY: Lueder Trucking
JOB NAME:
JOB CODE #:
JOB LOADS: 0

ORDERED: 0
DELIVERED: 0
REMAINING: 0

TRUCK: 115

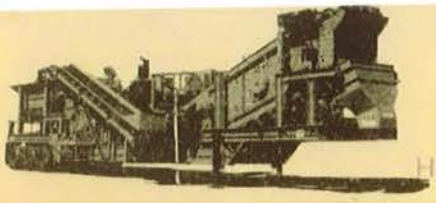
TRUCK LOADS: 0
DELIVERED TODAY: 0

EMPTY WEIGHT: 65000
FULL WEIGHT: 29120 LOAD WEIGHT: 35880 TONS: 17.94

LOAD CODE: 91 TYPE OF LOAD: Concrete-Disposal

REC'D BY: Roger Hoffman MEMO:

IN SAND



Badgerland Aggregates, LLC
Q - Pit
Pit Phone : 920-755-2131
Office Phone: 920-657-1586
HAVE A NICE DAY!

COMPANY CODE: 0000900
BILLING COMPANY: Cash Customer
ADDRESS:

TICKET #: 1124558
DATE: 6/8/2021
TIME: 10:02 AM

HAULER CODE #: 0009727
HAULER COMPANY: Lueder Trucking
JOB NAME:
JOB CODE #:
JOB LOADS: 0

ORDERED: 0
DELIVERED: 0
REMAINING: 0
TRUCK LOADS: 0
DELIVERED TODAY: 0

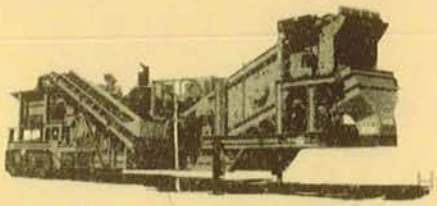
TRUCK: 115

EMPTY WEIGHT: 29120
FULL WEIGHT: 71940 LOAD WEIGHT: 42820 TONS: 21.41

LOAD CODE: 34 TYPE OF LOAD: Waterhole Fill

REC'D BY: Roger Hoffman MEMO:

2



Badgerland Aggregates, LLC
Q - Pit
Pit Phone : 920-755-2131
Office Phone: 920-657-1586
HAVE A NICE DAY!

COMPANY CODE: 0000900
BILLING COMPANY: Cash Customer
ADDRESS:

TICKET #: 1124577
DATE: 6/8/2021
TIME: 11:25 AM

HAULER CODE #: 0009727
HAULER COMPANY: Lueder Trucking
JOB NAME:
JOB CODE #:
JOB LOADS: 0

ORDERED: 0
DELIVERED: 0
REMAINING: 0
TRUCK LOADS: 0
DELIVERED TODAY: 0

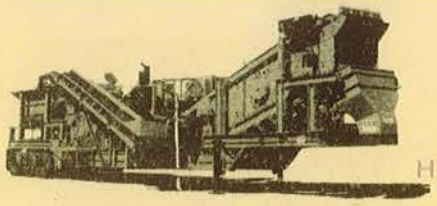
TRUCK: 115

EMPTY WEIGHT: 29120
FULL WEIGHT: 72880 LOAD WEIGHT: 43760 TONS: 21.88

LOAD CODE: 34 TYPE OF LOAD: Waterhole Fill

REC'D BY: Roger Hoffman MEMO:

2



Badgerland Aggregates, LLC
Q - Pit
Pit Phone : 920-755-2131
Office Phone: 920-657-1586
HAVE A NICE DAY!

COMPANY CODE: 0000900
BILLING COMPANY: Cash Customer
ADDRESS:

TICKET #: 1124589
DATE: 6/8/2021
TIME: 12:50 PM

HAULER CODE #: 0009727
HAULER COMPANY: Lueder Trucking
JOB NAME:
JOB CODE #:
JOB LOADS: 0

ORDERED: 0
DELIVERED: 0
REMAINING: 0
TRUCK LOADS: 0
DELIVERED TODAY: 0

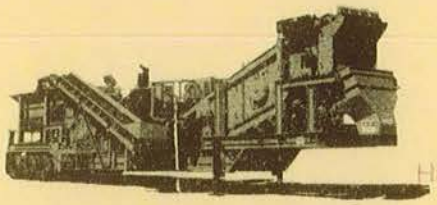
TRUCK: 115

EMPTY WEIGHT: 29120
FULL WEIGHT: 70940 LOAD WEIGHT: 41820 TONS: 20.91

LOAD CODE: 34 TYPE OF LOAD: Waterhole Fill

REC'D BY: Roger Hoffman MEMO:

2



Badgerland Aggregates, LLC
Q - Pit
Pit Phone : 920-755-2131
Office Phone: 920-657-1586
HAVE A NICE DAY!

COMPANY CODE: 0000900
BILLING COMPANY: Cash Customer
ADDRESS:

TICKET #: 1124602
DATE: 6/8/2021
TIME: 02:13 PM

HAULER CODE #: 0009727
HAULER COMPANY: Lueder Trucking
JOB NAME:
JOB CODE #:
JOB LOADS: 0

ORDERED: 0
DELIVERED: 0
REMAINING: 0
TRUCK LOADS: 0
DELIVERED TODAY: 0

TRUCK: 115

EMPTY WEIGHT: 29120
FULL WEIGHT: 72980 LOAD WEIGHT: 43860 TONS: 21.93

LOAD CODE: 34 TYPE OF LOAD: Waterhole Fill

REC'D BY: Roger Hoffman MEMO:

ATTACHMENT C
Sadoff Iron & Metal Disposal Documentation

Cull, Whitney

To: Adam
Subject: RE: Sadoff scrap ticket

From: Karen Eckert <eckertk@sadoff.com>
Sent: Wednesday, June 30, 2021 10:28 AM
To: adam@hcexploration.com
Subject: Sadoff scrap ticket

Hi Adam,

Please find below the ticket of scrap metal we picked up. Should you need anything else, please let me know. It was a pleasure to do business with you and we should definitely discuss more opportunities in the future.

Have a great holiday weekend.

Karen

Ticket Info #: TBFEEU

Purchased From: HORI03
HORIZON CONSTRUCTION &
EXPLORATION
FREDONIA WI 53021

SHEBOYGAN
3313 N 21ST STREET
SHEBOYGAN WI 53083
920.457.2431

Veh # TK 103 | ID # 103/1316s35 | Order# 21339 01 | Vendor SO | Trip # 278439 | Supp Shipr

SHPMNT	COMMODITY	GROSS	TARE	NET	ADJ	ADJ REASON	#CARS	RED CNT	RED WT	RED EXT	PD WT
572824	1401 - UNPREP STEEL - SHEAR	48,680A	37,500A	11,180	-40	DIRT					11,140
Totals		**48,680**	**37,500**	**11,180**	**-40**		**0**	**0**	**0**	**$ 0.00**	**11,140**

TICKET COMMENT: 40 lbs dirt
INSPECTOR: TRAVIS M
INSPECTION COMMENT: unprep steel 40 lbs dirt

GRS Date 06/09/21
GRS Time 11:08
TRE Date 06/09/21
TRE Time 11:18

WEIGHMASTER INITIALS: *** -LAURIE B

M FOLLOWING A WEIGHT REPRESENTS A WEIGHT THAT WAS MANUALLY ENTERED
A=Scale 1 B=Scale 2 C=Scale 3 D=Scale 4
Display as Form

Karen Eckert
Account Representative

C (920) 918-7950
E eckertk@sadoff.com

ATTACHMENT D
MW-25 Well Abandonment Form

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☐ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Manitowoc	MW-25	

Lattitude / Longitude (Degrees and Minutes): ° ' " 'N ; ° ' " 'W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #	NE	30	19	24 ☒ E ☐ W

Well Street Address: 1512 Washington Street

Well City, Village or Town	Well ZIP Code
Manitowoc	54220

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Well abandonment	

2. Facility / Owner Information

Facility Name: Former Mirro Facility
Facility ID (FID or PWS):
License/Permit/Monitoring #: BRRTS #02-36-545108
Original Well Owner:
Present Well Owner: City of Manitowoc Community Development Authority
Mailing Address of Present Owner: 900 Quay Street

City of Present Owner	State	ZIP Code
Manitowoc	WI	54220

3. Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Drillhole / Borehole

Original Construction Date: 3/27/2019
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
15.0	2.00
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
6.0	15.0

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☒ Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	☒ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☒ No	☐ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☒ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	15.0	1 Sack	N/A

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Horizon Construction and Exploration LLC		6/8/2021

Street or Route	Telephone Number
764 Tower Drive	(262) 692-3347

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Fredonia	WI	53021	Whitney Cull (on behalf of Horizon)	7/6/2021

DNR Use Only

Date Received	Noted By

Comments:

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☒ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Former Mirro Facility	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW-25
Facility License, Permit or Monitoring No.: BRRTS #02-36-545108	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: MW-25 / DNR Well Number: MW-25
Facility ID	St. Plane 300,037 ft. N, 230,945 ft. E. Ⓢ/C/N	Date Well Installed: 03/27/2019
Type of Well: Well Code 71/dw	Section Location of Waste/Source: ____ 1/4 of NE 1/4 of Sec. 30, T. 19 N, R. 24 ☒ E ☐ W	Well Installed By: (Person's Name and Firm): Roy Buckenberger; Cascade Environmental
Distance from Waste/Source ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation ____ ft. MSL

B. Well casing, top elevation 606.52 ft. MSL

C. Land surface elevation 605.1 ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☒
SM ☒ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 5 0 / Hollow Stem Auger ☐ 4 1 / Rotosonic / Other ☒ _ _

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1 Drilling Mud ☐ 0 3 None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top 605.1 ft. MSL or 0.0 ft.

F. Fine sand, top 603.1 ft. MSL or 2.0 ft.

G. Filter pack, top 602.1 ft. MSL or 3.0 ft.

H. Screen joint, top 600.1 ft. MSL or 5.0 ft.

I. Well bottom 590.1 ft. MSL or 15.0 ft.

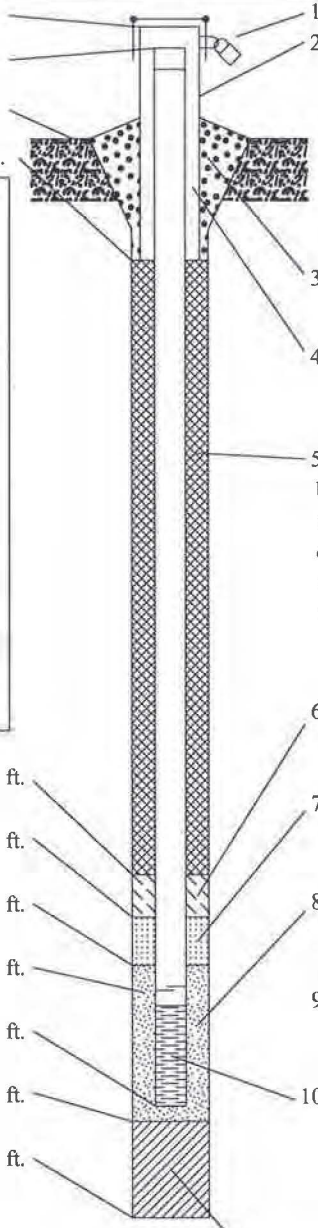
J. Filter pack, bottom 590.1 ft. MSL or 15.0 ft.

K. Borehole, bottom 590.1 ft. MSL or 15.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: N/A — Steel ☐ 0 4 / Other ☒ _ _
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____

3. Surface seal: Bentonite ☒ 3 0 / Concrete ☐ 0 1 / Other ☐ _ _

4. Material between well casing and protective pipe: N/A — Bentonite ☐ 3 0 / Other ☒ _ _

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. ____ Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 0 1 / Tremie pumped ☐ 0 2 / Gravity ☐ 0 8

6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐ _ _

7. Fine sand material: Manufacturer, product name & mesh size
a. #60 _ _
b. Volume added ____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. #40 _ _
b. Volume added ____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3 / Flush threaded PVC schedule 80 ☐ 2 4 / Other ☐ _ _

10. Screen material: PVC _ _
a. Screen Type: Factory cut ☒ 1 1 / Continuous slot ☐ 0 1 / Other ☐ _ _
b. Manufacturer Johnson
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None ☒ 1 4 / Other ☐ _ _

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature ____ Firm Stantec Tel: Fax:

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

ATTACHMENT E
Laboratory Report

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-200584-1
Client Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

For:
Stantec Consulting Corp.
12075 Corporate Pkwy, Suite 200
Mequon, Wisconsin 53092

Attn: Harris Byers

Jodie Bracken

Authorized for release by:
6/24/2021 1:08:47 PM
Jodie Bracken, Project Management Assistant II
Jodie.Bracken@Eurofinset.com

Designee for

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

Table of Contents

Job ID: 500-200584-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-200584-1

Comments
No additional comments.

Receipt
The samples were received on 6/10/2021 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.9º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Job ID: 500-200584-1
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Client Sample ID: South Wall — Lab Sample ID: 500-200584-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	19	J	34	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	15	J	34	6.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	20	J	34	7.4	ug/Kg	1	☼	8270D	Total/NA
Chrysene	20	J	34	9.4	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	19	J	34	6.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	20	J	34	6.8	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: South Tank Base — Lab Sample ID: 500-200584-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	6.6	J	37	6.6	ug/Kg	1	☼	8270D	Total/NA
Anthracene	25	J	37	6.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	380		37	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	170		37	7.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	490		37	8.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	150		37	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	200		37	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	560		37	10	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	52		37	7.1	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	660		37	6.8	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	130		37	9.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	310		37	5.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	580		37	7.3	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: West Wall — Lab Sample ID: 500-200584-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	7.0	J	34	4.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	7.3	J	34	6.7	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	8.0	J	34	6.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	8.4	J	34	6.8	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: East Wall — Lab Sample ID: 500-200584-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3-Trichlorobenzene	53		47	22	ug/Kg	50		8260B	Total/NA
1,2,4-Trichlorobenzene	37	J	47	16	ug/Kg	50		8260B	Total/NA
Naphthalene	87		47	16	ug/Kg	50		8260B	Total/NA
Toluene	24		12	6.9	ug/Kg	50		8260B	Total/NA
1-Methylnaphthalene	25	J	70	8.5	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	34	J	70	6.4	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	74		35	6.2	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	22	J	35	4.6	ug/Kg	1	☼	8270D	Total/NA
Anthracene	190		35	5.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	770		35	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	660		35	6.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1100		35	7.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	190		35	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	440		35	10	ug/Kg	1	☼	8270D	Total/NA
Chrysene	770		35	9.5	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	74		35	6.7	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	1400		35	6.4	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: East Wall (Continued)
Lab Sample ID: 500-200584-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	75		35	4.9	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	200		35	9.0	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	120		35	5.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1000		35	4.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1200		35	6.9	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: North Tank Base
Lab Sample ID: 500-200584-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	69		35	6.4	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	8.3	J	35	4.7	ug/Kg	1	☼	8270D	Total/NA
Anthracene	240		35	6.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1500		35	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	850		35	6.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1900		35	7.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	350		35	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	790		35	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	1600		35	9.7	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	130		35	6.9	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	2300		35	6.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	79		35	5.0	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	320		35	9.3	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	7.4	J	35	5.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1800		35	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	2200		35	7.1	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: North Wall
Lab Sample ID: 500-200584-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	12	J	35	6.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	56		35	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	40		35	6.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	150		35	7.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	55		35	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	48		35	10	ug/Kg	1	☼	8270D	Total/NA
Chrysene	95		35	9.5	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	17	J	35	6.7	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	96		35	6.5	ug/Kg	1	☼	8270D	Total/NA
Fluorene	11	J	35	4.9	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	49		35	9.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	40		35	4.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	66		35	6.9	ug/Kg	1	☼	8270D	Total/NA

Client Sample ID: MeOH TB
Lab Sample ID: 500-200584-7

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Stantec Consulting Corp.
Job ID: 500-200584-1
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Stantec Consulting Corp.
Job ID: 500-200584-1
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-200584-1	South Wall	Solid	06/08/21 19:00	06/10/21 09:45	
500-200584-2	South Tank Base	Solid	06/08/21 19:05	06/10/21 09:45	
500-200584-3	West Wall	Solid	06/08/21 19:10	06/10/21 09:45	
500-200584-4	East Wall	Solid	06/08/21 19:15	06/10/21 09:45	
500-200584-5	North Tank Base	Solid	06/08/21 19:20	06/10/21 09:45	
500-200584-6	North Wall	Solid	06/08/21 19:25	06/10/21 09:45	
500-200584-7	MeOH TB	Solid	06/08/21 00:00	06/10/21 09:45	

Client: Stantec Consulting Corp.
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Job ID: 500-200584-1

Client Sample ID: South Wall
Date Collected: 06/08/21 19:00
Date Received: 06/10/21 09:45

Lab Sample ID: 500-200584-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
1,1-Dichloroethane	<21		50	21	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
1,1-Dichloroethene	<20		50	20	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
1,1-Dichloropropene	<15		50	15	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
1,2-Dibromoethane	<19		50	19	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
1,2-Dichloroethane	<20		50	20	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
1,2-Dichloropropane	<22		50	22	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
1,3-Dichloropropane	<18		50	18	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
2,2-Dichloropropane	<22		50	22	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
2-Chlorotoluene	<16		50	16	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
4-Chlorotoluene	<18		50	18	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Benzene	<7.4		13	7.4	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Bromobenzene	<18		50	18	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Bromochloromethane	<22		50	22	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Bromodichloromethane	<19		50	19	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Bromoform	<24		50	24	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Bromomethane	<40		150	40	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Carbon tetrachloride	<19		50	19	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Chlorobenzene	<19		50	19	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Chloroethane	<25		50	25	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Chloroform	<19		100	19	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Chloromethane	<16		50	16	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
cis-1,2-Dichloroethene	<21		50	21	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Dibromochloromethane	<25		50	25	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Dibromomethane	<14		50	14	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Hexachlorobutadiene	<22		50	22	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Isopropyl ether	<14		50	14	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Isopropylbenzene	<19		50	19	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Methylene Chloride	<82		250	82	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Naphthalene	<17		50	17	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
n-Butylbenzene	<20		50	20	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
N-Propylbenzene	<21		50	21	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
p-Isopropyltoluene	<18		50	18	ug/Kg		06/08/21 19:00	06/22/21 11:43	50

Client: Stantec Consulting Corp.
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Job ID: 500-200584-1

Client Sample ID: South Wall
Date Collected: 06/08/21 19:00
Date Received: 06/10/21 09:45

Lab Sample ID: 500-200584-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<20		50	20	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Styrene	<19		50	19	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
tert-Butylbenzene	<20		50	20	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Tetrachloroethene	<19		50	19	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Toluene	<7.4		13	7.4	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Trichloroethene	<8.3		25	8.3	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Trichlorofluoromethane	<22		50	22	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Vinyl chloride	<13		50	13	ug/Kg		06/08/21 19:00	06/22/21 11:43	50
Xylenes, Total	<11		25	11	ug/Kg		06/08/21 19:00	06/22/21 11:43	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*	*06/08/21 19:00*	*06/22/21 11:43*	*50*
4-Bromofluorobenzene (Surr)	*87*		*72 - 124*	*06/08/21 19:00*	*06/22/21 11:43*	*50*
Dibromofluoromethane (Surr)	*107*		*75 - 120*	*06/08/21 19:00*	*06/22/21 11:43*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*06/08/21 19:00*	*06/22/21 11:43*	*50*

Client: Stantec Consulting Corp.
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Job ID: 500-200584-1

Client Sample ID: South Wall
Date Collected: 06/08/21 19:00
Date Received: 06/10/21 09:45

Lab Sample ID: 500-200584-1
Matrix: Solid
Percent Solids: 94.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.4		69	8.4	ug/Kg	☼	06/19/21 05:42	06/21/21 11:53	1
2-Methylnaphthalene	<6.3		69	6.3	ug/Kg	☼	06/19/21 05:42	06/21/21 11:53	1
Acenaphthene	<6.2		34	6.2	ug/Kg	☼	06/19/21 05:42	06/21/21 11:53	1
Acenaphthylene	<4.5		34	4.5	ug/Kg	☼	06/19/21 05:42	06/21/21 11:53	1
Anthracene	<5.7		34	5.7	ug/Kg	☼	06/19/21 05:42	06/21/21 11:53	1
Benzo[a]anthracene	**19**	**J**	34	4.6	ug/Kg	☼	06/19/21 05:42	06/21/21 11:53	1
Benzo[a]pyrene	**15**	**J**	34	6.7	ug/Kg	☼	06/19/21 05:42	06/21/21 11:53	1
Benzo[b]fluoranthene	**20**	**J**	34	7.4	ug/Kg	☼	06/19/21 05:42	06/21/21 11:53	1
Benzo[g,h,i]perylene	<11		34	11	ug/Kg	☼	06/19/21 05:42	06/21/21 11:53	1
Benzo[k]fluoranthene	<10		34	10	ug/Kg	☼	06/19/21 05:42	06/21/21 11:53	1
Chrysene	**20**	**J**	34	9.4	ug/Kg	☼	06/19/21 05:42	06/21/21 11:53	1
Dibenz(a,h)anthracene	<6.6		34	6.6	ug/Kg	☼	06/19/21 05:42	06/21/21 11:53	1
Fluoranthene	**19**	**J**	34	6.4	ug/Kg	☼	06/19/21 05:42	06/21/21 11:53	1
Fluorene	<4.8		34	4.8	ug/Kg	☼	06/19/21 05:42	06/21/21 11:53	1
Indeno[1,2,3-cd]pyrene	<8.9		34	8.9	ug/Kg	☼	06/19/21 05:42	06/21/21 11:53	1
Naphthalene	<5.3		34	5.3	ug/Kg	☼	06/19/21 05:42	06/21/21 11:53	1
Phenanthrene	<4.8		34	4.8	ug/Kg	☼	06/19/21 05:42	06/21/21 11:53	1
Pyrene	**20**	**J**	34	6.8	ug/Kg	☼	06/19/21 05:42	06/21/21 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*95*		*43 - 145*	*06/19/21 05:42*	*06/21/21 11:53*	*1*
Nitrobenzene-d5 (Surr)	*87*		*37 - 147*	*06/19/21 05:42*	*06/21/21 11:53*	*1*
Terphenyl-d14 (Surr)	*102*		*42 - 157*	*06/19/21 05:42*	*06/21/21 11:53*	*1*

Client: Stantec Consulting Corp.
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Job ID: 500-200584-1

Client Sample ID: South Tank Base
Date Collected: 06/08/21 19:05
Date Received: 06/10/21 09:45

Lab Sample ID: 500-200584-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		49	23	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
1,1,1-Trichloroethane	<19		49	19	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
1,1,2,2-Tetrachloroethane	<19		49	19	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
1,1,2-Trichloroethane	<17		49	17	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
1,1-Dichloroethane	<20		49	20	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
1,1-Dichloroethene	<19		49	19	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
1,1-Dichloropropene	<15		49	15	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
1,2,3-Trichlorobenzene	<22		49	22	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
1,2,3-Trichloropropane	<20		98	20	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
1,2,4-Trichlorobenzene	<17		49	17	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
1,2,4-Trimethylbenzene	<18		49	18	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
1,2-Dibromo-3-Chloropropane	<97		240	97	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
1,2-Dibromoethane	<19		49	19	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
1,2-Dichlorobenzene	<16		49	16	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
1,2-Dichloroethane	<19		49	19	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
1,2-Dichloropropane	<21		49	21	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
1,3,5-Trimethylbenzene	<19		49	19	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
1,3-Dichlorobenzene	<20		49	20	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
1,3-Dichloropropane	<18		49	18	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
1,4-Dichlorobenzene	<18		49	18	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
2,2-Dichloropropane	<22		49	22	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
2-Chlorotoluene	<15		49	15	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
4-Chlorotoluene	<17		49	17	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Benzene	<7.1		12	7.1	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Bromobenzene	<17		49	17	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Bromochloromethane	<21		49	21	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Bromodichloromethane	<18		49	18	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Bromoform	<24		49	24	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Bromomethane	<39		150	39	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Carbon tetrachloride	<19		49	19	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Chlorobenzene	<19		49	19	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Chloroethane	<25		49	25	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Chloroform	<18		98	18	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Chloromethane	<16		49	16	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
cis-1,2-Dichloroethene	<20		49	20	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
cis-1,3-Dichloropropene	<20		49	20	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Dibromochloromethane	<24		49	24	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Dibromomethane	<13		49	13	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Dichlorodifluoromethane	<33		150	33	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Ethylbenzene	<9.0		12	9.0	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Hexachlorobutadiene	<22		49	22	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Isopropyl ether	<14		49	14	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Isopropylbenzene	<19		49	19	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Methyl tert-butyl ether	<19		49	19	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Methylene Chloride	<80		240	80	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Naphthalene	<16		49	16	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
n-Butylbenzene	<19		49	19	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
N-Propylbenzene	<20		49	20	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
p-Isopropyltoluene	<18		49	18	ug/Kg		06/08/21 19:05	06/22/21 12:10	50

Client: Stantec Consulting Corp.
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Job ID: 500-200584-1

Client Sample ID: South Tank Base
Date Collected: 06/08/21 19:05
Date Received: 06/10/21 09:45

Lab Sample ID: 500-200584-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<19		49	19	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Styrene	<19		49	19	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
tert-Butylbenzene	<19		49	19	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Tetrachloroethene	<18		49	18	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Toluene	<7.2		12	7.2	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
trans-1,2-Dichloroethene	<17		49	17	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
trans-1,3-Dichloropropene	<18		49	18	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Trichloroethene	<8.0		24	8.0	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Trichlorofluoromethane	<21		49	21	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Vinyl chloride	<13		49	13	ug/Kg		06/08/21 19:05	06/22/21 12:10	50
Xylenes, Total	<11		24	11	ug/Kg		06/08/21 19:05	06/22/21 12:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*	*06/08/21 19:05*	*06/22/21 12:10*	*50*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*	*06/08/21 19:05*	*06/22/21 12:10*	*50*
Dibromofluoromethane (Surr)	*104*		*75 - 120*	*06/08/21 19:05*	*06/22/21 12:10*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*06/08/21 19:05*	*06/22/21 12:10*	*50*

Client: Stantec Consulting Corp.
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Job ID: 500-200584-1

Client Sample ID: South Tank Base
Date Collected: 06/08/21 19:05
Date Received: 06/10/21 09:45

Lab Sample ID: 500-200584-2
Matrix: Solid
Percent Solids: 88.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.0		74	9.0	ug/Kg	☼	06/19/21 05:42	06/21/21 12:14	1
2-Methylnaphthalene	<6.8		74	6.8	ug/Kg	☼	06/19/21 05:42	06/21/21 12:14	1
Acenaphthene	**6.6**	**J**	37	6.6	ug/Kg	☼	06/19/21 05:42	06/21/21 12:14	1
Acenaphthylene	<4.9		37	4.9	ug/Kg	☼	06/19/21 05:42	06/21/21 12:14	1
Anthracene	**25**	**J**	37	6.2	ug/Kg	☼	06/19/21 05:42	06/21/21 12:14	1
Benzo[a]anthracene	**380**		37	5.0	ug/Kg	☼	06/19/21 05:42	06/21/21 12:14	1
Benzo[a]pyrene	**170**		37	7.1	ug/Kg	☼	06/19/21 05:42	06/21/21 12:14	1
Benzo[b]fluoranthene	**490**		37	8.0	ug/Kg	☼	06/19/21 05:42	06/21/21 12:14	1
Benzo[g,h,i]perylene	**150**		37	12	ug/Kg	☼	06/19/21 05:42	06/21/21 12:14	1
Benzo[k]fluoranthene	**200**		37	11	ug/Kg	☼	06/19/21 05:42	06/21/21 12:14	1
Chrysene	**560**		37	10	ug/Kg	☼	06/19/21 05:42	06/21/21 12:14	1
Dibenz(a,h)anthracene	**52**		37	7.1	ug/Kg	☼	06/19/21 05:42	06/21/21 12:14	1
Fluoranthene	**660**		37	6.8	ug/Kg	☼	06/19/21 05:42	06/21/21 12:14	1
Fluorene	<5.2		37	5.2	ug/Kg	☼	06/19/21 05:42	06/21/21 12:14	1
Indeno[1,2,3-cd]pyrene	**130**		37	9.6	ug/Kg	☼	06/19/21 05:42	06/21/21 12:14	1
Naphthalene	<5.7		37	5.7	ug/Kg	☼	06/19/21 05:42	06/21/21 12:14	1
Phenanthrene	**310**		37	5.1	ug/Kg	☼	06/19/21 05:42	06/21/21 12:14	1
Pyrene	**580**		37	7.3	ug/Kg	☼	06/19/21 05:42	06/21/21 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*93*		*43 - 145*	*06/19/21 05:42*	*06/21/21 12:14*	*1*
Nitrobenzene-d5 (Surr)	*84*		*37 - 147*	*06/19/21 05:42*	*06/21/21 12:14*	*1*
Terphenyl-d14 (Surr)	*98*		*42 - 157*	*06/19/21 05:42*	*06/21/21 12:14*	*1*

Client: Stantec Consulting Corp.
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Job ID: 500-200584-1

Client Sample ID: West Wall
Date Collected: 06/08/21 19:10
Date Received: 06/10/21 09:45

Lab Sample ID: 500-200584-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
1,1-Dichloroethane	<21		50	21	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
1,1-Dichloroethene	<20		50	20	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
1,1-Dichloropropene	<15		50	15	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
1,2-Dibromoethane	<19		50	19	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
1,2-Dichloroethane	<20		50	20	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
1,2-Dichloropropane	<22		50	22	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
1,3-Dichloropropane	<18		50	18	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
2,2-Dichloropropane	<22		50	22	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
2-Chlorotoluene	<16		50	16	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
4-Chlorotoluene	<18		50	18	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Benzene	<7.3		13	7.3	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Bromobenzene	<18		50	18	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Bromochloromethane	<22		50	22	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Bromodichloromethane	<19		50	19	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Bromoform	<24		50	24	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Bromomethane	<40		150	40	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Carbon tetrachloride	<19		50	19	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Chlorobenzene	<19		50	19	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Chloroethane	<25		50	25	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Chloroform	<19		100	19	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Chloromethane	<16		50	16	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
cis-1,2-Dichloroethene	<21		50	21	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Dibromochloromethane	<25		50	25	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Dibromomethane	<14		50	14	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Hexachlorobutadiene	<22		50	22	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Isopropyl ether	<14		50	14	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Isopropylbenzene	<19		50	19	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Methylene Chloride	<82		250	82	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Naphthalene	<17		50	17	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
n-Butylbenzene	<20		50	20	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
N-Propylbenzene	<21		50	21	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
p-Isopropyltoluene	<18		50	18	ug/Kg		06/08/21 19:10	06/22/21 12:36	50

Client: Stantec Consulting Corp.
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Job ID: 500-200584-1

Client Sample ID: West Wall
Date Collected: 06/08/21 19:10
Date Received: 06/10/21 09:45

Lab Sample ID: 500-200584-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<20		50	20	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Styrene	<19		50	19	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
tert-Butylbenzene	<20		50	20	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Tetrachloroethene	<19		50	19	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Toluene	<7.4		13	7.4	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Trichloroethene	<8.2		25	8.2	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Trichlorofluoromethane	<22		50	22	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Vinyl chloride	<13		50	13	ug/Kg		06/08/21 19:10	06/22/21 12:36	50
Xylenes, Total	<11		25	11	ug/Kg		06/08/21 19:10	06/22/21 12:36	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*	*06/08/21 19:10*	*06/22/21 12:36*	*50*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*	*06/08/21 19:10*	*06/22/21 12:36*	*50*
Dibromofluoromethane (Surr)	*103*		*75 - 120*	*06/08/21 19:10*	*06/22/21 12:36*	*50*
Toluene-d8 (Surr)	*99*		*75 - 120*	*06/08/21 19:10*	*06/22/21 12:36*	*50*

Client: Stantec Consulting Corp.
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Job ID: 500-200584-1

Client Sample ID: West Wall
Date Collected: 06/08/21 19:10
Date Received: 06/10/21 09:45

Lab Sample ID: 500-200584-3
Matrix: Solid
Percent Solids: 94.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.4		69	8.4	ug/Kg	☼	06/19/21 05:42	06/21/21 12:36	1
2-Methylnaphthalene	<6.3		69	6.3	ug/Kg	☼	06/19/21 05:42	06/21/21 12:36	1
Acenaphthene	<6.2		34	6.2	ug/Kg	☼	06/19/21 05:42	06/21/21 12:36	1
Acenaphthylene	<4.5		34	4.5	ug/Kg	☼	06/19/21 05:42	06/21/21 12:36	1
Anthracene	<5.7		34	5.7	ug/Kg	☼	06/19/21 05:42	06/21/21 12:36	1
Benzo[a]anthracene	**7.0**	**J**	34	4.6	ug/Kg	☼	06/19/21 05:42	06/21/21 12:36	1
Benzo[a]pyrene	**7.3**	**J**	34	6.7	ug/Kg	☼	06/19/21 05:42	06/21/21 12:36	1
Benzo[b]fluoranthene	<7.4		34	7.4	ug/Kg	☼	06/19/21 05:42	06/21/21 12:36	1
Benzo[g,h,i]perylene	<11		34	11	ug/Kg	☼	06/19/21 05:42	06/21/21 12:36	1
Benzo[k]fluoranthene	<10		34	10	ug/Kg	☼	06/19/21 05:42	06/21/21 12:36	1
Chrysene	<9.4		34	9.4	ug/Kg	☼	06/19/21 05:42	06/21/21 12:36	1
Dibenz(a,h)anthracene	<6.6		34	6.6	ug/Kg	☼	06/19/21 05:42	06/21/21 12:36	1
Fluoranthene	**8.0**	**J**	34	6.4	ug/Kg	☼	06/19/21 05:42	06/21/21 12:36	1
Fluorene	<4.8		34	4.8	ug/Kg	☼	06/19/21 05:42	06/21/21 12:36	1
Indeno[1,2,3-cd]pyrene	<8.9		34	8.9	ug/Kg	☼	06/19/21 05:42	06/21/21 12:36	1
Naphthalene	<5.3		34	5.3	ug/Kg	☼	06/19/21 05:42	06/21/21 12:36	1
Phenanthrene	<4.8		34	4.8	ug/Kg	☼	06/19/21 05:42	06/21/21 12:36	1
Pyrene	**8.4**	**J**	34	6.8	ug/Kg	☼	06/19/21 05:42	06/21/21 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*97*		*43 - 145*	*06/19/21 05:42*	*06/21/21 12:36*	*1*
Nitrobenzene-d5 (Surr)	*90*		*37 - 147*	*06/19/21 05:42*	*06/21/21 12:36*	*1*
Terphenyl-d14 (Surr)	*100*		*42 - 157*	*06/19/21 05:42*	*06/21/21 12:36*	*1*

Client: Stantec Consulting Corp.
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Job ID: 500-200584-1

Client Sample ID: East Wall
Date Collected: 06/08/21 19:15
Date Received: 06/10/21 09:45

Lab Sample ID: 500-200584-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<22		47	22	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
1,1,1-Trichloroethane	<18		47	18	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
1,1,2,2-Tetrachloroethane	<19		47	19	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
1,1,2-Trichloroethane	<17		47	17	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
1,1-Dichloroethane	<19		47	19	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
1,1-Dichloroethene	<18		47	18	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
1,1-Dichloropropene	<14		47	14	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
1,2,3-Trichlorobenzene	**53**		47	22	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
1,2,3-Trichloropropane	<20		94	20	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
1,2,4-Trichlorobenzene	**37**	**J**	47	16	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
1,2,4-Trimethylbenzene	<17		47	17	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
1,2-Dibromo-3-Chloropropane	<94		240	94	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
1,2-Dibromoethane	<18		47	18	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
1,2-Dichlorobenzene	<16		47	16	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
1,2-Dichloroethane	<19		47	19	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
1,2-Dichloropropane	<20		47	20	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
1,3,5-Trimethylbenzene	<18		47	18	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
1,3-Dichlorobenzene	<19		47	19	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
1,3-Dichloropropane	<17		47	17	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
1,4-Dichlorobenzene	<17		47	17	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
2,2-Dichloropropane	<21		47	21	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
2-Chlorotoluene	<15		47	15	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
4-Chlorotoluene	<17		47	17	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Benzene	<6.9		12	6.9	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Bromobenzene	<17		47	17	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Bromochloromethane	<20		47	20	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Bromodichloromethane	<18		47	18	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Bromoform	<23		47	23	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Bromomethane	<38		140	38	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Carbon tetrachloride	<18		47	18	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Chlorobenzene	<18		47	18	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Chloroethane	<24		47	24	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Chloroform	<17		94	17	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Chloromethane	<15		47	15	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
cis-1,2-Dichloroethene	<19		47	19	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
cis-1,3-Dichloropropene	<20		47	20	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Dibromochloromethane	<23		47	23	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Dibromomethane	<13		47	13	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Dichlorodifluoromethane	<32		140	32	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Ethylbenzene	<8.6		12	8.6	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Hexachlorobutadiene	<21		47	21	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Isopropyl ether	<13		47	13	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Isopropylbenzene	<18		47	18	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Methyl tert-butyl ether	<19		47	19	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Methylene Chloride	<77		240	77	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Naphthalene	**87**		47	16	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
n-Butylbenzene	<18		47	18	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
N-Propylbenzene	<20		47	20	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
p-Isopropyltoluene	<17		47	17	ug/Kg		06/08/21 19:15	06/22/21 13:03	50

Client: Stantec Consulting Corp.
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Job ID: 500-200584-1

Client Sample ID: East Wall
Date Collected: 06/08/21 19:15
Date Received: 06/10/21 09:45

Lab Sample ID: 500-200584-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<19		47	19	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Styrene	<18		47	18	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
tert-Butylbenzene	<19		47	19	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Tetrachloroethene	<17		47	17	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Toluene	**24**		12	6.9	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
trans-1,2-Dichloroethene	<17		47	17	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
trans-1,3-Dichloropropene	<17		47	17	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Trichloroethene	<7.7		24	7.7	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Trichlorofluoromethane	<20		47	20	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Vinyl chloride	<12		47	12	ug/Kg		06/08/21 19:15	06/22/21 13:03	50
Xylenes, Total	<10		24	10	ug/Kg		06/08/21 19:15	06/22/21 13:03	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*	*06/08/21 19:15*	*06/22/21 13:03*	*50*
4-Bromofluorobenzene (Surr)	*87*		*72 - 124*	*06/08/21 19:15*	*06/22/21 13:03*	*50*
Dibromofluoromethane (Surr)	*108*		*75 - 120*	*06/08/21 19:15*	*06/22/21 13:03*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*06/08/21 19:15*	*06/22/21 13:03*	*50*

Client: Stantec Consulting Corp.
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Job ID: 500-200584-1

Client Sample ID: East Wall
Date Collected: 06/08/21 19:15
Date Received: 06/10/21 09:45

Lab Sample ID: 500-200584-4
Matrix: Solid
Percent Solids: 93.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	25	J	70	8.5	ug/Kg	☼	06/19/21 05:42	06/21/21 18:21	1
2-Methylnaphthalene	34	J	70	6.4	ug/Kg	☼	06/19/21 05:42	06/21/21 18:21	1
Acenaphthene	74		35	6.2	ug/Kg	☼	06/19/21 05:42	06/21/21 18:21	1
Acenaphthylene	22	J	35	4.6	ug/Kg	☼	06/19/21 05:42	06/21/21 18:21	1
Anthracene	190		35	5.8	ug/Kg	☼	06/19/21 05:42	06/21/21 18:21	1
Benzo[a]anthracene	770		35	4.7	ug/Kg	☼	06/19/21 05:42	06/21/21 18:21	1
Benzo[a]pyrene	660		35	6.7	ug/Kg	☼	06/19/21 05:42	06/21/21 18:21	1
Benzo[b]fluoranthene	1100		35	7.5	ug/Kg	☼	06/19/21 05:42	06/21/21 18:21	1
Benzo[g,h,i]perylene	190		35	11	ug/Kg	☼	06/19/21 05:42	06/21/21 18:21	1
Benzo[k]fluoranthene	440		35	10	ug/Kg	☼	06/19/21 05:42	06/21/21 18:21	1
Chrysene	770		35	9.5	ug/Kg	☼	06/19/21 05:42	06/21/21 18:21	1
Dibenz(a,h)anthracene	74		35	6.7	ug/Kg	☼	06/19/21 05:42	06/21/21 18:21	1
Fluoranthene	1400		35	6.4	ug/Kg	☼	06/19/21 05:42	06/21/21 18:21	1
Fluorene	75		35	4.9	ug/Kg	☼	06/19/21 05:42	06/21/21 18:21	1
Indeno[1,2,3-cd]pyrene	200		35	9.0	ug/Kg	☼	06/19/21 05:42	06/21/21 18:21	1
Naphthalene	120		35	5.3	ug/Kg	☼	06/19/21 05:42	06/21/21 18:21	1
Phenanthrene	1000		35	4.8	ug/Kg	☼	06/19/21 05:42	06/21/21 18:21	1
Pyrene	1200		35	6.9	ug/Kg	☼	06/19/21 05:42	06/21/21 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*94*		*43 - 145*	*06/19/21 05:42*	*06/21/21 18:21*	*1*
Nitrobenzene-d5 (Surr)	*83*		*37 - 147*	*06/19/21 05:42*	*06/21/21 18:21*	*1*
Terphenyl-d14 (Surr)	*95*		*42 - 157*	*06/19/21 05:42*	*06/21/21 18:21*	*1*

Client: Stantec Consulting Corp.
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Job ID: 500-200584-1

Client Sample ID: North Tank Base
Date Collected: 06/08/21 19:20
Date Received: 06/10/21 09:45

Lab Sample ID: 500-200584-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
1,1-Dichloroethane	<20		50	20	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
1,1-Dichloroethene	<19		50	19	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
1,1-Dichloropropene	<15		50	15	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
1,2-Dibromo-3-Chloropropane	<99		250	99	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
1,2-Dibromoethane	<19		50	19	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
1,2-Dichloroethane	<20		50	20	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
1,2-Dichloropropane	<21		50	21	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
1,3-Dichloropropane	<18		50	18	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
2,2-Dichloropropane	<22		50	22	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
2-Chlorotoluene	<16		50	16	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
4-Chlorotoluene	<17		50	17	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Benzene	<7.3		12	7.3	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Bromobenzene	<18		50	18	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Bromochloromethane	<21		50	21	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Bromodichloromethane	<19		50	19	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Bromoform	<24		50	24	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Bromomethane	<40		150	40	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Carbon tetrachloride	<19		50	19	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Chlorobenzene	<19		50	19	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Chloroethane	<25		50	25	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Chloroform	<18		100	18	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Chloromethane	<16		50	16	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Dibromochloromethane	<24		50	24	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Dibromomethane	<13		50	13	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Ethylbenzene	<9.1		12	9.1	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Hexachlorobutadiene	<22		50	22	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Isopropyl ether	<14		50	14	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Isopropylbenzene	<19		50	19	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Methylene Chloride	<81		250	81	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Naphthalene	<17		50	17	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
n-Butylbenzene	<19		50	19	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
N-Propylbenzene	<21		50	21	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
p-Isopropyltoluene	<18		50	18	ug/Kg		06/08/21 19:20	06/22/21 13:30	50

Client: Stantec Consulting Corp.
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Job ID: 500-200584-1

Client Sample ID: North Tank Base
Date Collected: 06/08/21 19:20
Date Received: 06/10/21 09:45

Lab Sample ID: 500-200584-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<20		50	20	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Styrene	<19		50	19	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
tert-Butylbenzene	<20		50	20	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Tetrachloroethene	<18		50	18	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Toluene	<7.3		12	7.3	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
trans-1,2-Dichloroethene	<17		50	17	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Trichloroethene	<8.2		25	8.2	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Trichlorofluoromethane	<21		50	21	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Vinyl chloride	<13		50	13	ug/Kg		06/08/21 19:20	06/22/21 13:30	50
Xylenes, Total	<11		25	11	ug/Kg		06/08/21 19:20	06/22/21 13:30	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*	*06/08/21 19:20*	*06/22/21 13:30*	*50*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*	*06/08/21 19:20*	*06/22/21 13:30*	*50*
Dibromofluoromethane (Surr)	*108*		*75 - 120*	*06/08/21 19:20*	*06/22/21 13:30*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*06/08/21 19:20*	*06/22/21 13:30*	*50*

Client: Stantec Consulting Corp.
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Job ID: 500-200584-1

Client Sample ID: North Tank Base
Date Collected: 06/08/21 19:20
Date Received: 06/10/21 09:45

Lab Sample ID: 500-200584-5
Matrix: Solid
Percent Solids: 91.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.7		72	8.7	ug/Kg	☼	06/19/21 05:42	06/21/21 18:42	1
2-Methylnaphthalene	<6.6		72	6.6	ug/Kg	☼	06/19/21 05:42	06/21/21 18:42	1
Acenaphthene	**69**		35	6.4	ug/Kg	☼	06/19/21 05:42	06/21/21 18:42	1
Acenaphthylene	**8.3**	**J**	35	4.7	ug/Kg	☼	06/19/21 05:42	06/21/21 18:42	1
Anthracene	**240**		35	6.0	ug/Kg	☼	06/19/21 05:42	06/21/21 18:42	1
Benzo[a]anthracene	**1500**		35	4.8	ug/Kg	☼	06/19/21 05:42	06/21/21 18:42	1
Benzo[a]pyrene	**850**		35	6.9	ug/Kg	☼	06/19/21 05:42	06/21/21 18:42	1
Benzo[b]fluoranthene	**1900**		35	7.7	ug/Kg	☼	06/19/21 05:42	06/21/21 18:42	1
Benzo[g,h,i]perylene	**350**		35	12	ug/Kg	☼	06/19/21 05:42	06/21/21 18:42	1
Benzo[k]fluoranthene	**790**		35	11	ug/Kg	☼	06/19/21 05:42	06/21/21 18:42	1
Chrysene	**1600**		35	9.7	ug/Kg	☼	06/19/21 05:42	06/21/21 18:42	1
Dibenz(a,h)anthracene	**130**		35	6.9	ug/Kg	☼	06/19/21 05:42	06/21/21 18:42	1
Fluoranthene	**2300**		35	6.6	ug/Kg	☼	06/19/21 05:42	06/21/21 18:42	1
Fluorene	**79**		35	5.0	ug/Kg	☼	06/19/21 05:42	06/21/21 18:42	1
Indeno[1,2,3-cd]pyrene	**320**		35	9.3	ug/Kg	☼	06/19/21 05:42	06/21/21 18:42	1
Naphthalene	**7.4**	**J**	35	5.5	ug/Kg	☼	06/19/21 05:42	06/21/21 18:42	1
Phenanthrene	**1800**		35	5.0	ug/Kg	☼	06/19/21 05:42	06/21/21 18:42	1
Pyrene	**2200**		35	7.1	ug/Kg	☼	06/19/21 05:42	06/21/21 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*95*		*43 - 145*	*06/19/21 05:42*	*06/21/21 18:42*	*1*
Nitrobenzene-d5 (Surr)	*89*		*37 - 147*	*06/19/21 05:42*	*06/21/21 18:42*	*1*
Terphenyl-d14 (Surr)	*101*		*42 - 157*	*06/19/21 05:42*	*06/21/21 18:42*	*1*

Client: Stantec Consulting Corp.
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Job ID: 500-200584-1

Client Sample ID: North Wall
Date Collected: 06/08/21 19:25
Date Received: 06/10/21 09:45

Lab Sample ID: 500-200584-6
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
1,1,2-Trichloroethane	<17		50	17	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
1,1-Dichloroethane	<20		50	20	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
1,1-Dichloroethene	<19		50	19	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
1,1-Dichloropropene	<15		50	15	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
1,2,3-Trichloropropane	<21		99	21	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
1,2-Dibromo-3-Chloropropane	<99		250	99	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
1,2-Dibromoethane	<19		50	19	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
1,2-Dichloroethane	<19		50	19	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
1,2-Dichloropropane	<21		50	21	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
1,3-Dichloropropane	<18		50	18	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
2,2-Dichloropropane	<22		50	22	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
2-Chlorotoluene	<16		50	16	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
4-Chlorotoluene	<17		50	17	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Benzene	<7.2		12	7.2	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Bromobenzene	<18		50	18	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Bromochloromethane	<21		50	21	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Bromodichloromethane	<18		50	18	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Bromoform	<24		50	24	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Bromomethane	<39		150	39	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Carbon tetrachloride	<19		50	19	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Chlorobenzene	<19		50	19	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Chloroethane	<25		50	25	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Chloroform	<18		99	18	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Chloromethane	<16		50	16	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Dibromochloromethane	<24		50	24	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Dibromomethane	<13		50	13	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Dichlorodifluoromethane	<33		150	33	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Ethylbenzene	<9.1		12	9.1	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Hexachlorobutadiene	<22		50	22	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Isopropyl ether	<14		50	14	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Isopropylbenzene	<19		50	19	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Methylene Chloride	<81		250	81	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Naphthalene	<17		50	17	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
n-Butylbenzene	<19		50	19	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
N-Propylbenzene	<21		50	21	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
p-Isopropyltoluene	<18		50	18	ug/Kg		06/08/21 19:25	06/22/21 13:56	50

Client: Stantec Consulting Corp.
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Job ID: 500-200584-1

Client Sample ID: North Wall
Date Collected: 06/08/21 19:25
Date Received: 06/10/21 09:45

Lab Sample ID: 500-200584-6
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<20		50	20	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Styrene	<19		50	19	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
tert-Butylbenzene	<20		50	20	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Tetrachloroethene	<18		50	18	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Toluene	<7.3		12	7.3	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
trans-1,2-Dichloroethene	<17		50	17	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Trichloroethene	<8.1		25	8.1	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Trichlorofluoromethane	<21		50	21	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Vinyl chloride	<13		50	13	ug/Kg		06/08/21 19:25	06/22/21 13:56	50
Xylenes, Total	<11		25	11	ug/Kg		06/08/21 19:25	06/22/21 13:56	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*	*06/08/21 19:25*	*06/22/21 13:56*	*50*
4-Bromofluorobenzene (Surr)	*90*		*72 - 124*	*06/08/21 19:25*	*06/22/21 13:56*	*50*
Dibromofluoromethane (Surr)	*108*		*75 - 120*	*06/08/21 19:25*	*06/22/21 13:56*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*06/08/21 19:25*	*06/22/21 13:56*	*50*

Client: Stantec Consulting Corp.
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Job ID: 500-200584-1

Client Sample ID: North Wall
Date Collected: 06/08/21 19:25
Date Received: 06/10/21 09:45

Lab Sample ID: 500-200584-6
Matrix: Solid
Percent Solids: 95.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.5		70	8.5	ug/Kg	☼	06/18/21 22:27	06/21/21 14:06	1
2-Methylnaphthalene	<6.4		70	6.4	ug/Kg	☼	06/18/21 22:27	06/21/21 14:06	1
Acenaphthene	**12**	**J**	35	6.3	ug/Kg	☼	06/18/21 22:27	06/21/21 14:06	1
Acenaphthylene	<4.6		35	4.6	ug/Kg	☼	06/18/21 22:27	06/21/21 14:06	1
Anthracene	<5.8		35	5.8	ug/Kg	☼	06/18/21 22:27	06/21/21 14:06	1
Benzo[a]anthracene	**56**		35	4.7	ug/Kg	☼	06/18/21 22:27	06/21/21 14:06	1
Benzo[a]pyrene	**40**		35	6.7	ug/Kg	☼	06/18/21 22:27	06/21/21 14:06	1
Benzo[b]fluoranthene	**150**		35	7.5	ug/Kg	☼	06/18/21 22:27	06/21/21 14:06	1
Benzo[g,h,i]perylene	**55**		35	11	ug/Kg	☼	06/18/21 22:27	06/21/21 14:06	1
Benzo[k]fluoranthene	**48**		35	10	ug/Kg	☼	06/18/21 22:27	06/21/21 14:06	1
Chrysene	**95**		35	9.5	ug/Kg	☼	06/18/21 22:27	06/21/21 14:06	1
Dibenz(a,h)anthracene	**17**	**J**	35	6.7	ug/Kg	☼	06/18/21 22:27	06/21/21 14:06	1
Fluoranthene	**96**		35	6.5	ug/Kg	☼	06/18/21 22:27	06/21/21 14:06	1
Fluorene	**11**	**J**	35	4.9	ug/Kg	☼	06/18/21 22:27	06/21/21 14:06	1
Indeno[1,2,3-cd]pyrene	**49**		35	9.0	ug/Kg	☼	06/18/21 22:27	06/21/21 14:06	1
Naphthalene	<5.4		35	5.4	ug/Kg	☼	06/18/21 22:27	06/21/21 14:06	1
Phenanthrene	**40**		35	4.8	ug/Kg	☼	06/18/21 22:27	06/21/21 14:06	1
Pyrene	**66**		35	6.9	ug/Kg	☼	06/18/21 22:27	06/21/21 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*43 - 145*	*06/18/21 22:27*	*06/21/21 14:06*	*1*
Nitrobenzene-d5 (Surr)	*71*		*37 - 147*	*06/18/21 22:27*	*06/21/21 14:06*	*1*
Terphenyl-d14 (Surr)	*79*		*42 - 157*	*06/18/21 22:27*	*06/21/21 14:06*	*1*

Client: Stantec Consulting Corp.
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Job ID: 500-200584-1

Client Sample ID: MeOH TB
Date Collected: 06/08/21 00:00
Date Received: 06/10/21 09:45

Lab Sample ID: 500-200584-7
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
1,1-Dichloroethane	<21		50	21	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
1,1-Dichloroethene	<20		50	20	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
1,1-Dichloropropene	<15		50	15	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
1,2-Dibromoethane	<19		50	19	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
1,2-Dichloroethane	<20		50	20	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
1,2-Dichloropropane	<21		50	21	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
1,3-Dichloropropane	<18		50	18	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
2,2-Dichloropropane	<22		50	22	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
2-Chlorotoluene	<16		50	16	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
4-Chlorotoluene	<18		50	18	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Benzene	<7.3		13	7.3	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Bromobenzene	<18		50	18	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Bromochloromethane	<21		50	21	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Bromodichloromethane	<19		50	19	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Bromoform	<24		50	24	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Bromomethane	<40		150	40	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Carbon tetrachloride	<19		50	19	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Chlorobenzene	<19		50	19	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Chloroethane	<25		50	25	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Chloroform	<19		100	19	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Chloromethane	<16		50	16	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Dibromochloromethane	<24		50	24	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Dibromomethane	<14		50	14	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Hexachlorobutadiene	<22		50	22	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Isopropyl ether	<14		50	14	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Isopropylbenzene	<19		50	19	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Methylene Chloride	<82		250	82	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Naphthalene	<17		50	17	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
n-Butylbenzene	<19		50	19	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
N-Propylbenzene	<21		50	21	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
p-Isopropyltoluene	<18		50	18	ug/Kg		06/08/21 00:00	06/22/21 11:16	50

Client: Stantec Consulting Corp.
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Job ID: 500-200584-1

Client Sample ID: MeOH TB
Date Collected: 06/08/21 00:00
Date Received: 06/10/21 09:45

Lab Sample ID: 500-200584-7
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<20		50	20	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Styrene	<19		50	19	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
tert-Butylbenzene	<20		50	20	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Tetrachloroethene	<19		50	19	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Toluene	<7.4		13	7.4	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Trichloroethene	<8.2		25	8.2	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Trichlorofluoromethane	<21		50	21	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Vinyl chloride	<13		50	13	ug/Kg		06/08/21 00:00	06/22/21 11:16	50
Xylenes, Total	<11		25	11	ug/Kg		06/08/21 00:00	06/22/21 11:16	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*	*06/08/21 00:00*	*06/22/21 11:16*	*50*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*	*06/08/21 00:00*	*06/22/21 11:16*	*50*
Dibromofluoromethane (Surr)	*106*		*75 - 120*	*06/08/21 00:00*	*06/22/21 11:16*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*06/08/21 00:00*	*06/22/21 11:16*	*50*

Definitions/Glossary

Client: Stantec Consulting Corp. Job ID: 500-200584-1
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Stantec Consulting Corp.
Job ID: 500-200584-1
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

GC/MS VOA

Prep Batch: 603507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200584-1	South Wall	Total/NA	Solid	5035	
500-200584-2	South Tank Base	Total/NA	Solid	5035	
500-200584-3	West Wall	Total/NA	Solid	5035	
500-200584-4	East Wall	Total/NA	Solid	5035	
500-200584-5	North Tank Base	Total/NA	Solid	5035	
500-200584-6	North Wall	Total/NA	Solid	5035	
500-200584-7	MeOH TB	Total/NA	Solid	5035	
LB3 500-603507/8-A	Method Blank	Total/NA	Solid	5035	
LCS 500-603507/9-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 605390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200584-1	South Wall	Total/NA	Solid	8260B	603507
500-200584-2	South Tank Base	Total/NA	Solid	8260B	603507
500-200584-3	West Wall	Total/NA	Solid	8260B	603507
500-200584-4	East Wall	Total/NA	Solid	8260B	603507
500-200584-5	North Tank Base	Total/NA	Solid	8260B	603507
500-200584-6	North Wall	Total/NA	Solid	8260B	603507
500-200584-7	MeOH TB	Total/NA	Solid	8260B	603507
LB3 500-603507/8-A	Method Blank	Total/NA	Solid	8260B	603507
MB 500-605390/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-603507/9-A	Lab Control Sample	Total/NA	Solid	8260B	603507
LCS 500-605390/4	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 605025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200584-6	North Wall	Total/NA	Solid	3541	
MB 500-605025/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-605025/2-A	Lab Control Sample	Total/NA	Solid	3541	

Prep Batch: 605041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200584-1	South Wall	Total/NA	Solid	3541	
500-200584-2	South Tank Base	Total/NA	Solid	3541	
500-200584-3	West Wall	Total/NA	Solid	3541	
500-200584-4	East Wall	Total/NA	Solid	3541	
500-200584-5	North Tank Base	Total/NA	Solid	3541	
MB 500-605041/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-605041/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 605182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200584-1	South Wall	Total/NA	Solid	8270D	605041
500-200584-2	South Tank Base	Total/NA	Solid	8270D	605041
500-200584-3	West Wall	Total/NA	Solid	8270D	605041
500-200584-4	East Wall	Total/NA	Solid	8270D	605041
500-200584-5	North Tank Base	Total/NA	Solid	8270D	605041
MB 500-605041/1-A	Method Blank	Total/NA	Solid	8270D	605041
LCS 500-605041/2-A	Lab Control Sample	Total/NA	Solid	8270D	605041

QC Association Summary

Client: Stantec Consulting Corp.
Job ID: 500-200584-1
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

GC/MS Semi VOA

Analysis Batch: 605196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200584-6	North Wall	Total/NA	Solid	8270D	605025
MB 500-605025/1-A	Method Blank	Total/NA	Solid	8270D	605025
LCS 500-605025/2-A	Lab Control Sample	Total/NA	Solid	8270D	605025

General Chemistry

Analysis Batch: 604910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200584-1	South Wall	Total/NA	Solid	Moisture	
500-200584-2	South Tank Base	Total/NA	Solid	Moisture	
500-200584-3	West Wall	Total/NA	Solid	Moisture	
500-200584-4	East Wall	Total/NA	Solid	Moisture	
500-200584-5	North Tank Base	Total/NA	Solid	Moisture	
500-200584-6	North Wall	Total/NA	Solid	Moisture	
500-200584-1 DU	South Wall	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Stantec Consulting Corp.
Job ID: 500-200584-1
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-200584-1	South Wall	107	87	107	100
500-200584-2	South Tank Base	108	89	104	98
500-200584-3	West Wall	107	91	103	99
500-200584-4	East Wall	109	87	108	101
500-200584-5	North Tank Base	110	89	108	98
500-200584-6	North Wall	110	90	108	98
500-200584-7	MeOH TB	109	89	106	98
LB3 500-603507/8-A	Method Blank	108	89	104	97
LCS 500-603507/9-A	Lab Control Sample	104	87	101	103
LCS 500-605390/4	Lab Control Sample	100	87	100	103
MB 500-605390/6	Method Blank	109	87	108	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(43-145)	(37-147)	(42-157)
500-200584-1	South Wall	95	87	102
500-200584-2	South Tank Base	93	84	98
500-200584-3	West Wall	97	90	100
500-200584-4	East Wall	94	83	95
500-200584-5	North Tank Base	95	89	101
500-200584-6	North Wall	72	71	79
LCS 500-605025/2-A	Lab Control Sample	84	86	89
LCS 500-605041/2-A	Lab Control Sample	98	94	100
MB 500-605025/1-A	Method Blank	84	83	121
MB 500-605041/1-A	Method Blank	97	92	100

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-603507/8-A
Matrix: Solid
Analysis Batch: 605390

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 603507

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
1,1-Dichloroethane	<21		50	21	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
1,1-Dichloroethene	<20		50	20	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
1,1-Dichloropropene	<15		50	15	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
1,2-Dibromoethane	<19		50	19	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
1,2-Dichloroethane	<20		50	20	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
1,2-Dichloropropane	<21		50	21	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
1,3-Dichloropropane	<18		50	18	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
2,2-Dichloropropane	<22		50	22	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
2-Chlorotoluene	<16		50	16	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
4-Chlorotoluene	<18		50	18	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Benzene	<7.3		13	7.3	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Bromobenzene	<18		50	18	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Bromochloromethane	<21		50	21	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Bromodichloromethane	<19		50	19	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Bromoform	<24		50	24	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Bromomethane	<40		150	40	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Carbon tetrachloride	<19		50	19	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Chlorobenzene	<19		50	19	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Chloroethane	<25		50	25	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Chloroform	<19		100	19	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Chloromethane	<16		50	16	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Dibromochloromethane	<24		50	24	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Dibromomethane	<14		50	14	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Hexachlorobutadiene	<22		50	22	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Isopropyl ether	<14		50	14	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Isopropylbenzene	<19		50	19	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Methylene Chloride	<82		250	82	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Naphthalene	<17		50	17	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
n-Butylbenzene	<19		50	19	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
N-Propylbenzene	<21		50	21	ug/Kg		06/11/21 01:00	06/22/21 10:50	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-603507/8-A
Matrix: Solid
Analysis Batch: 605390

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 603507

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<18		50	18	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
sec-Butylbenzene	<20		50	20	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Styrene	<19		50	19	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
tert-Butylbenzene	<20		50	20	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Tetrachloroethene	<19		50	19	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Toluene	<7.4		13	7.4	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Trichloroethene	<8.2		25	8.2	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Trichlorofluoromethane	<21		50	21	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Vinyl chloride	<13		50	13	ug/Kg		06/11/21 01:00	06/22/21 10:50	50
Xylenes, Total	<11		25	11	ug/Kg		06/11/21 01:00	06/22/21 10:50	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*	*06/11/21 01:00*	*06/22/21 10:50*	*50*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*	*06/11/21 01:00*	*06/22/21 10:50*	*50*
Dibromofluoromethane (Surr)	*104*		*75 - 120*	*06/11/21 01:00*	*06/22/21 10:50*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*06/11/21 01:00*	*06/22/21 10:50*	*50*

Lab Sample ID: LCS 500-603507/9-A
Matrix: Solid
Analysis Batch: 605390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	2650		ug/Kg		106	70 - 125
1,1,1-Trichloroethane	2500	2420		ug/Kg		97	70 - 125
1,1,2,2-Tetrachloroethane	2500	2300		ug/Kg		92	62 - 140
1,1,2-Trichloroethane	2500	2560		ug/Kg		102	71 - 130
1,1-Dichloroethane	2500	2370		ug/Kg		95	70 - 125
1,1-Dichloroethene	2500	2250		ug/Kg		90	67 - 122
1,1-Dichloropropene	2500	2310		ug/Kg		92	70 - 121
1,2,3-Trichlorobenzene	2500	2690		ug/Kg		108	51 - 145
1,2,3-Trichloropropane	2500	2380		ug/Kg		95	50 - 133
1,2,4-Trichlorobenzene	2500	2480		ug/Kg		99	57 - 137
1,2,4-Trimethylbenzene	2500	2300		ug/Kg		92	70 - 123
1,2-Dibromo-3-Chloropropane	2500	2380		ug/Kg		95	56 - 123
1,2-Dibromoethane	2500	2420		ug/Kg		97	70 - 125
1,2-Dichlorobenzene	2500	2490		ug/Kg		100	70 - 125
1,2-Dichloroethane	2500	2480		ug/Kg		99	68 - 127
1,2-Dichloropropane	2500	2280		ug/Kg		91	67 - 130
1,3,5-Trimethylbenzene	2500	2320		ug/Kg		93	70 - 123
1,3-Dichlorobenzene	2500	2400		ug/Kg		96	70 - 125
1,3-Dichloropropane	2500	2460		ug/Kg		99	62 - 136
1,4-Dichlorobenzene	2500	2380		ug/Kg		95	70 - 120
2,2-Dichloropropane	2500	2290		ug/Kg		92	58 - 139
2-Chlorotoluene	2500	2280		ug/Kg		91	70 - 125
4-Chlorotoluene	2500	2290		ug/Kg		91	68 - 124
Benzene	2500	2440		ug/Kg		98	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-603507/9-A
Matrix: Solid
Analysis Batch: 605390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	2500	2410		ug/Kg		96	70 - 122
Bromochloromethane	2500	2470		ug/Kg		99	65 - 122
Bromodichloromethane	2500	2320		ug/Kg		93	69 - 120
Bromoform	2500	2710		ug/Kg		108	56 - 132
Bromomethane	2500	1990		ug/Kg		79	40 - 152
Carbon tetrachloride	2500	2350		ug/Kg		94	59 - 133
Chlorobenzene	2500	2480		ug/Kg		99	70 - 120
Chloroethane	2500	2270		ug/Kg		91	48 - 136
Chloroform	2500	2440		ug/Kg		97	70 - 120
Chloromethane	2500	2120		ug/Kg		85	56 - 152
cis-1,2-Dichloroethene	2500	2330		ug/Kg		93	70 - 125
cis-1,3-Dichloropropene	2500	2340		ug/Kg		93	64 - 127
Dibromochloromethane	2500	2460		ug/Kg		98	68 - 125
Dibromomethane	2500	2340		ug/Kg		94	70 - 120
Dichlorodifluoromethane	2500	1790		ug/Kg		72	40 - 159
Ethylbenzene	2500	2390		ug/Kg		95	70 - 123
Hexachlorobutadiene	2500	3130		ug/Kg		125	51 - 150
Isopropylbenzene	2500	2220		ug/Kg		89	70 - 126
Methyl tert-butyl ether	2500	2260		ug/Kg		90	55 - 123
Methylene Chloride	2500	2580		ug/Kg		103	69 - 125
Naphthalene	2500	2260		ug/Kg		90	53 - 144
n-Butylbenzene	2500	2260		ug/Kg		90	68 - 125
N-Propylbenzene	2500	2260		ug/Kg		90	69 - 127
p-Isopropyltoluene	2500	2300		ug/Kg		92	70 - 125
sec-Butylbenzene	2500	2280		ug/Kg		91	70 - 123
Styrene	2500	2480		ug/Kg		99	70 - 120
tert-Butylbenzene	2500	2260		ug/Kg		90	70 - 121
Tetrachloroethene	2500	2800		ug/Kg		112	70 - 128
Toluene	2500	2540		ug/Kg		101	70 - 125
trans-1,2-Dichloroethene	2500	2430		ug/Kg		97	70 - 125
trans-1,3-Dichloropropene	2500	2240		ug/Kg		89	62 - 128
Trichloroethene	2500	2400		ug/Kg		96	70 - 125
Trichlorofluoromethane	2500	2410		ug/Kg		96	55 - 128
Vinyl chloride	2500	2220		ug/Kg		89	64 - 126
Xylenes, Total	5000	4730		ug/Kg		95	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*
4-Bromofluorobenzene (Surr)	*87*		*72 - 124*
Dibromofluoromethane (Surr)	*101*		*75 - 120*
Toluene-d8 (Surr)	*103*		*75 - 120*

Lab Sample ID: MB 500-605390/6
Matrix: Solid
Analysis Batch: 605390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			06/22/21 10:23	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-605390/6
Matrix: Solid
Analysis Batch: 605390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			06/22/21 10:23	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			06/22/21 10:23	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			06/22/21 10:23	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			06/22/21 10:23	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			06/22/21 10:23	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			06/22/21 10:23	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			06/22/21 10:23	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			06/22/21 10:23	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			06/22/21 10:23	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			06/22/21 10:23	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			06/22/21 10:23	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			06/22/21 10:23	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			06/22/21 10:23	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			06/22/21 10:23	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			06/22/21 10:23	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			06/22/21 10:23	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			06/22/21 10:23	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			06/22/21 10:23	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			06/22/21 10:23	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			06/22/21 10:23	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			06/22/21 10:23	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			06/22/21 10:23	1
Benzene	<0.15		0.25	0.15	ug/Kg			06/22/21 10:23	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			06/22/21 10:23	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			06/22/21 10:23	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			06/22/21 10:23	1
Bromoform	<0.48		1.0	0.48	ug/Kg			06/22/21 10:23	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			06/22/21 10:23	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			06/22/21 10:23	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			06/22/21 10:23	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			06/22/21 10:23	1
Chloroform	<0.37		2.0	0.37	ug/Kg			06/22/21 10:23	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			06/22/21 10:23	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			06/22/21 10:23	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			06/22/21 10:23	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			06/22/21 10:23	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			06/22/21 10:23	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			06/22/21 10:23	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			06/22/21 10:23	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			06/22/21 10:23	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			06/22/21 10:23	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			06/22/21 10:23	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			06/22/21 10:23	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			06/22/21 10:23	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			06/22/21 10:23	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			06/22/21 10:23	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			06/22/21 10:23	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			06/22/21 10:23	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			06/22/21 10:23	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-605390/6
Matrix: Solid
Analysis Batch: 605390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.39		1.0	0.39	ug/Kg			06/22/21 10:23	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			06/22/21 10:23	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			06/22/21 10:23	1
Toluene	<0.15		0.25	0.15	ug/Kg			06/22/21 10:23	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			06/22/21 10:23	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			06/22/21 10:23	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			06/22/21 10:23	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			06/22/21 10:23	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			06/22/21 10:23	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			06/22/21 10:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*		*06/22/21 10:23*	*1*
4-Bromofluorobenzene (Surr)	*87*		*72 - 124*		*06/22/21 10:23*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 120*		*06/22/21 10:23*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*06/22/21 10:23*	*1*

Lab Sample ID: LCS 500-605390/4
Matrix: Solid
Analysis Batch: 605390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	56.8		ug/Kg		114	70 - 125
1,1,1-Trichloroethane	50.0	54.0		ug/Kg		108	70 - 125
1,1,2,2-Tetrachloroethane	50.0	47.8		ug/Kg		96	62 - 140
1,1,2-Trichloroethane	50.0	52.3		ug/Kg		105	71 - 130
1,1-Dichloroethane	50.0	51.7		ug/Kg		103	70 - 125
1,1-Dichloroethene	50.0	55.7		ug/Kg		111	67 - 122
1,1-Dichloropropene	50.0	51.4		ug/Kg		103	70 - 121
1,2,3-Trichlorobenzene	50.0	58.2		ug/Kg		116	51 - 145
1,2,3-Trichloropropane	50.0	49.3		ug/Kg		99	50 - 133
1,2,4-Trichlorobenzene	50.0	55.3		ug/Kg		111	57 - 137
1,2,4-Trimethylbenzene	50.0	49.8		ug/Kg		100	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	52.6		ug/Kg		105	56 - 123
1,2-Dibromoethane	50.0	50.8		ug/Kg		102	70 - 125
1,2-Dichlorobenzene	50.0	53.3		ug/Kg		107	70 - 125
1,2-Dichloroethane	50.0	50.6		ug/Kg		101	68 - 127
1,2-Dichloropropane	50.0	49.0		ug/Kg		98	67 - 130
1,3,5-Trimethylbenzene	50.0	50.7		ug/Kg		101	70 - 123
1,3-Dichlorobenzene	50.0	51.6		ug/Kg		103	70 - 125
1,3-Dichloropropane	50.0	51.6		ug/Kg		103	62 - 136
1,4-Dichlorobenzene	50.0	51.2		ug/Kg		102	70 - 120
2,2-Dichloropropane	50.0	53.3		ug/Kg		107	58 - 139
2-Chlorotoluene	50.0	49.7		ug/Kg		99	70 - 125
4-Chlorotoluene	50.0	49.6		ug/Kg		99	68 - 124
Benzene	50.0	52.0		ug/Kg		104	70 - 120
Bromobenzene	50.0	51.5		ug/Kg		103	70 - 122
Bromochloromethane	50.0	51.6		ug/Kg		103	65 - 122

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-605390/4
Matrix: Solid
Analysis Batch: 605390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	50.0	48.2		ug/Kg		96	69 - 120
Bromoform	50.0	57.2		ug/Kg		114	56 - 132
Bromomethane	50.0	42.9		ug/Kg		86	40 - 152
Carbon tetrachloride	50.0	53.0		ug/Kg		106	59 - 133
Chlorobenzene	50.0	52.8		ug/Kg		106	70 - 120
Chloroethane	50.0	49.1		ug/Kg		98	48 - 136
Chloroform	50.0	51.1		ug/Kg		102	70 - 120
Chloromethane	50.0	52.7		ug/Kg		105	56 - 152
cis-1,2-Dichloroethene	50.0	50.9		ug/Kg		102	70 - 125
cis-1,3-Dichloropropene	50.0	49.8		ug/Kg		100	64 - 127
Dibromochloromethane	50.0	52.0		ug/Kg		104	68 - 125
Dibromomethane	50.0	48.4		ug/Kg		97	70 - 120
Dichlorodifluoromethane	50.0	54.0		ug/Kg		108	40 - 159
Ethylbenzene	50.0	52.2		ug/Kg		104	70 - 123
Hexachlorobutadiene	50.0	70.3		ug/Kg		141	51 - 150
Isopropylbenzene	50.0	49.7		ug/Kg		99	70 - 126
Methyl tert-butyl ether	50.0	48.6		ug/Kg		97	55 - 123
Methylene Chloride	50.0	53.6		ug/Kg		107	69 - 125
Naphthalene	50.0	49.0		ug/Kg		98	53 - 144
n-Butylbenzene	50.0	51.3		ug/Kg		103	68 - 125
N-Propylbenzene	50.0	50.6		ug/Kg		101	69 - 127
p-Isopropyltoluene	50.0	51.7		ug/Kg		103	70 - 125
sec-Butylbenzene	50.0	50.9		ug/Kg		102	70 - 123
Styrene	50.0	52.8		ug/Kg		106	70 - 120
tert-Butylbenzene	50.0	49.4		ug/Kg		99	70 - 121
Tetrachloroethene	50.0	62.2		ug/Kg		124	70 - 128
Toluene	50.0	53.5		ug/Kg		107	70 - 125
trans-1,2-Dichloroethene	50.0	54.7		ug/Kg		109	70 - 125
trans-1,3-Dichloropropene	50.0	47.3		ug/Kg		95	62 - 128
Trichloroethene	50.0	51.7		ug/Kg		103	70 - 125
Trichlorofluoromethane	50.0	53.4		ug/Kg		107	55 - 128
Vinyl chloride	50.0	54.3		ug/Kg		109	64 - 126
Xylenes, Total	100	102		ug/Kg		102	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*
4-Bromofluorobenzene (Surr)	*87*		*72 - 124*
Dibromofluoromethane (Surr)	*100*		*75 - 120*
Toluene-d8 (Surr)	*103*		*75 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-605025/1-A
Matrix: Solid
Analysis Batch: 605196

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 605025

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg		06/18/21 22:27	06/21/21 11:19	1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg		06/18/21 22:27	06/21/21 11:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-605025/1-A
Matrix: Solid
Analysis Batch: 605196

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 605025

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.0		33	6.0	ug/Kg		06/18/21 22:27	06/21/21 11:19	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		06/18/21 22:27	06/21/21 11:19	1
Anthracene	<5.6		33	5.6	ug/Kg		06/18/21 22:27	06/21/21 11:19	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		06/18/21 22:27	06/21/21 11:19	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		06/18/21 22:27	06/21/21 11:19	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		06/18/21 22:27	06/21/21 11:19	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		06/18/21 22:27	06/21/21 11:19	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		06/18/21 22:27	06/21/21 11:19	1
Chrysene	<9.1		33	9.1	ug/Kg		06/18/21 22:27	06/21/21 11:19	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		06/18/21 22:27	06/21/21 11:19	1
Fluoranthene	<6.2		33	6.2	ug/Kg		06/18/21 22:27	06/21/21 11:19	1
Fluorene	<4.7		33	4.7	ug/Kg		06/18/21 22:27	06/21/21 11:19	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		06/18/21 22:27	06/21/21 11:19	1
Naphthalene	<5.1		33	5.1	ug/Kg		06/18/21 22:27	06/21/21 11:19	1
Phenanthrene	<4.6		33	4.6	ug/Kg		06/18/21 22:27	06/21/21 11:19	1
Pyrene	<6.6		33	6.6	ug/Kg		06/18/21 22:27	06/21/21 11:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*43 - 145*	*06/18/21 22:27*	*06/21/21 11:19*	*1*
Nitrobenzene-d5 (Surr)	*83*		*37 - 147*	*06/18/21 22:27*	*06/21/21 11:19*	*1*
Terphenyl-d14 (Surr)	*121*		*42 - 157*	*06/18/21 22:27*	*06/21/21 11:19*	*1*

Lab Sample ID: LCS 500-605025/2-A
Matrix: Solid
Analysis Batch: 605196

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 605025

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	1330	1110		ug/Kg		83	68 - 111
2-Methylnaphthalene	1330	1120		ug/Kg		84	69 - 112
Acenaphthene	1330	1030		ug/Kg		77	65 - 124
Acenaphthylene	1330	1060		ug/Kg		80	68 - 120
Anthracene	1330	1120		ug/Kg		84	70 - 114
Benzo[a]anthracene	1330	1260		ug/Kg		95	67 - 122
Benzo[a]pyrene	1330	1270		ug/Kg		95	65 - 133
Benzo[b]fluoranthene	1330	1150		ug/Kg		86	69 - 129
Benzo[g,h,i]perylene	1330	1160		ug/Kg		87	72 - 131
Benzo[k]fluoranthene	1330	1220		ug/Kg		91	68 - 127
Chrysene	1330	1200		ug/Kg		90	63 - 120
Dibenz(a,h)anthracene	1330	1120		ug/Kg		84	64 - 131
Fluoranthene	1330	1180		ug/Kg		88	62 - 120
Fluorene	1330	1110		ug/Kg		83	62 - 120
Indeno[1,2,3-cd]pyrene	1330	1100		ug/Kg		82	68 - 130
Naphthalene	1330	1050		ug/Kg		79	63 - 110
Phenanthrene	1330	1120		ug/Kg		84	62 - 120
Pyrene	1330	1120		ug/Kg		84	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*84*		*43 - 145*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-605025/2-A
Matrix: Solid
Analysis Batch: 605196

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 605025

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*86*		*37 - 147*
Terphenyl-d14 (Surr)	*89*		*42 - 157*

Lab Sample ID: MB 500-605041/1-A
Matrix: Solid
Analysis Batch: 605182

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 605041

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg		06/19/21 05:42	06/21/21 11:31	1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg		06/19/21 05:42	06/21/21 11:31	1
Acenaphthene	<6.0		33	6.0	ug/Kg		06/19/21 05:42	06/21/21 11:31	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		06/19/21 05:42	06/21/21 11:31	1
Anthracene	<5.6		33	5.6	ug/Kg		06/19/21 05:42	06/21/21 11:31	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		06/19/21 05:42	06/21/21 11:31	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		06/19/21 05:42	06/21/21 11:31	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		06/19/21 05:42	06/21/21 11:31	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		06/19/21 05:42	06/21/21 11:31	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		06/19/21 05:42	06/21/21 11:31	1
Chrysene	<9.1		33	9.1	ug/Kg		06/19/21 05:42	06/21/21 11:31	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		06/19/21 05:42	06/21/21 11:31	1
Fluoranthene	<6.2		33	6.2	ug/Kg		06/19/21 05:42	06/21/21 11:31	1
Fluorene	<4.7		33	4.7	ug/Kg		06/19/21 05:42	06/21/21 11:31	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		06/19/21 05:42	06/21/21 11:31	1
Naphthalene	<5.1		33	5.1	ug/Kg		06/19/21 05:42	06/21/21 11:31	1
Phenanthrene	<4.6		33	4.6	ug/Kg		06/19/21 05:42	06/21/21 11:31	1
Pyrene	<6.6		33	6.6	ug/Kg		06/19/21 05:42	06/21/21 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*97*		*43 - 145*	*06/19/21 05:42*	*06/21/21 11:31*	*1*
Nitrobenzene-d5 (Surr)	*92*		*37 - 147*	*06/19/21 05:42*	*06/21/21 11:31*	*1*
Terphenyl-d14 (Surr)	*100*		*42 - 157*	*06/19/21 05:42*	*06/21/21 11:31*	*1*

Lab Sample ID: LCS 500-605041/2-A
Matrix: Solid
Analysis Batch: 605182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 605041

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	1330	1200		ug/Kg		90	68 - 111
2-Methylnaphthalene	1330	1200		ug/Kg		90	69 - 112
Acenaphthene	1330	1260		ug/Kg		95	65 - 124
Acenaphthylene	1330	1290		ug/Kg		97	68 - 120
Anthracene	1330	1230		ug/Kg		92	70 - 114
Benzo[a]anthracene	1330	1300		ug/Kg		97	67 - 122
Benzo[a]pyrene	1330	1490		ug/Kg		112	65 - 133
Benzo[b]fluoranthene	1330	1350		ug/Kg		101	69 - 129
Benzo[g,h,i]perylene	1330	1220		ug/Kg		91	72 - 131
Benzo[k]fluoranthene	1330	1280		ug/Kg		96	68 - 127
Chrysene	1330	1280		ug/Kg		96	63 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-605041/2-A
Matrix: Solid
Analysis Batch: 605182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 605041

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibenz(a,h)anthracene	1330	1270		ug/Kg		95	64 - 131
Fluoranthene	1330	1330		ug/Kg		100	62 - 120
Fluorene	1330	1220		ug/Kg		92	62 - 120
Indeno[1,2,3-cd]pyrene	1330	1240		ug/Kg		93	68 - 130
Naphthalene	1330	1180		ug/Kg		88	63 - 110
Phenanthrene	1330	1230		ug/Kg		92	62 - 120
Pyrene	1330	1280		ug/Kg		96	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*98*		*43 - 145*
Nitrobenzene-d5 (Surr)	*94*		*37 - 147*
Terphenyl-d14 (Surr)	*100*		*42 - 157*

Lab Chronicle

Client: Stantec Consulting Corp.
Job ID: 500-200584-1
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Client Sample ID: South Wall
Lab Sample ID: 500-200584-1
Date Collected: 06/08/21 19:00
Matrix: Solid
Date Received: 06/10/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			603507	06/08/21 19:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	605390	06/22/21 11:43	PMF	TAL CHI
Total/NA	Analysis	Moisture		1	604910	06/18/21 10:28	LWN	TAL CHI

Client Sample ID: South Wall
Lab Sample ID: 500-200584-1
Date Collected: 06/08/21 19:00
Matrix: Solid
Date Received: 06/10/21 09:45
Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			605041	06/19/21 05:42	DAK	TAL CHI
Total/NA	Analysis	8270D		1	605182	06/21/21 11:53	AJD	TAL CHI

Client Sample ID: South Tank Base
Lab Sample ID: 500-200584-2
Date Collected: 06/08/21 19:05
Matrix: Solid
Date Received: 06/10/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			603507	06/08/21 19:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	605390	06/22/21 12:10	PMF	TAL CHI
Total/NA	Analysis	Moisture		1	604910	06/18/21 10:28	LWN	TAL CHI

Client Sample ID: South Tank Base
Lab Sample ID: 500-200584-2
Date Collected: 06/08/21 19:05
Matrix: Solid
Date Received: 06/10/21 09:45
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			605041	06/19/21 05:42	DAK	TAL CHI
Total/NA	Analysis	8270D		1	605182	06/21/21 12:14	AJD	TAL CHI

Client Sample ID: West Wall
Lab Sample ID: 500-200584-3
Date Collected: 06/08/21 19:10
Matrix: Solid
Date Received: 06/10/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			603507	06/08/21 19:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	605390	06/22/21 12:36	PMF	TAL CHI
Total/NA	Analysis	Moisture		1	604910	06/18/21 10:28	LWN	TAL CHI

Client Sample ID: West Wall
Lab Sample ID: 500-200584-3
Date Collected: 06/08/21 19:10
Matrix: Solid
Date Received: 06/10/21 09:45
Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			605041	06/19/21 05:42	DAK	TAL CHI
Total/NA	Analysis	8270D		1	605182	06/21/21 12:36	AJD	TAL CHI

Lab Chronicle

Client: Stantec Consulting Corp.
Job ID: 500-200584-1
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Client Sample ID: East Wall
Lab Sample ID: 500-200584-4
Date Collected: 06/08/21 19:15
Matrix: Solid
Date Received: 06/10/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			603507	06/08/21 19:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	605390	06/22/21 13:03	PMF	TAL CHI
Total/NA	Analysis	Moisture		1	604910	06/18/21 10:28	LWN	TAL CHI

Client Sample ID: East Wall
Lab Sample ID: 500-200584-4
Date Collected: 06/08/21 19:15
Matrix: Solid
Date Received: 06/10/21 09:45
Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			605041	06/19/21 05:42	DAK	TAL CHI
Total/NA	Analysis	8270D		1	605182	06/21/21 18:21	AJD	TAL CHI

Client Sample ID: North Tank Base
Lab Sample ID: 500-200584-5
Date Collected: 06/08/21 19:20
Matrix: Solid
Date Received: 06/10/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			603507	06/08/21 19:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	605390	06/22/21 13:30	PMF	TAL CHI
Total/NA	Analysis	Moisture		1	604910	06/18/21 10:28	LWN	TAL CHI

Client Sample ID: North Tank Base
Lab Sample ID: 500-200584-5
Date Collected: 06/08/21 19:20
Matrix: Solid
Date Received: 06/10/21 09:45
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			605041	06/19/21 05:42	DAK	TAL CHI
Total/NA	Analysis	8270D		1	605182	06/21/21 18:42	AJD	TAL CHI

Client Sample ID: North Wall
Lab Sample ID: 500-200584-6
Date Collected: 06/08/21 19:25
Matrix: Solid
Date Received: 06/10/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			603507	06/08/21 19:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	605390	06/22/21 13:56	PMF	TAL CHI
Total/NA	Analysis	Moisture		1	604910	06/18/21 10:28	LWN	TAL CHI

Client Sample ID: North Wall
Lab Sample ID: 500-200584-6
Date Collected: 06/08/21 19:25
Matrix: Solid
Date Received: 06/10/21 09:45
Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			605025	06/18/21 22:27	ACK	TAL CHI
Total/NA	Analysis	8270D		1	605196	06/21/21 14:06	AJD	TAL CHI

Lab Chronicle

Client: Stantec Consulting Corp.
Job ID: 500-200584-1
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Client Sample ID: MeOH TB
Lab Sample ID: 500-200584-7
Date Collected: 06/08/21 00:00
Matrix: Solid
Date Received: 06/10/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			603507	06/08/21 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	605390	06/22/21 11:16	PMF	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Stantec Consulting Corp. Job ID: 500-200584-1
Project/Site: Frm Mirro Plant 9 UST Remv - 193706270

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-21

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax 708-534 5211

Chain of Custody Record

eurofins

Client Information	Sampler: C. Coll	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-92032-41022 1
Client Contact: Harris Byers	Phone: (262) 219-4710	E-Mail: sandra.fredrick@eurofinset.com	State of Origin: WI	Page: Page 1 of 1
Company: Stantec Consulting Corp	PWSID:			Job #: 500 - 200584
Address: 12075 Corporate Pkwy Suite 200	Due Date Requested:			
City: Mequon	TAT Requested (days): 10 DAY			
State, Zip: WI 53092	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 193706270			
Email: harris.byers@stantec.com	WO #:			
Project Name: Frm Mirro Plant 9 UST Remv 193706270	Project #: 50006565			
Site:	SSOW#:			

500-200584 COC

Analysis Requested

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B VOC	8270D - PAH	Total Number of containers	Special Instructions/Note
				Preservation Code:				N	N		
1	SOUTH WALL	6/8/2021	1900	G	Solid	N	N	X	X	3	
2	SOUTH TANK BASE		1905		Solid			X	X	3	
3	WEST WALL		1910		Solid			X	X	3	
4	EAST WALL		1915		Solid			X	X	3	
5	NORTH TANK BASE		1920		Solid			X	X	3	
6	NORTH WALL	↓	1925	↓	Solid	↓	↓	X	X	3	
7	MeOH TB				Solid			X		1	
					Solid						
					Solid						
					Solid						
					Solid						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
C. Coll	6/9/2021, 1400	STANTEC	Paula Buckley	6/10/21 0945	EA CHI
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		3.8

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 500-200584-1

Login Number: 200584
List Number: 1
Creator: Buckley, Paula M

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	